

# SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 27th Year  
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## 1996 Wisconsin QSO Party



1800Z March 10 to 0100Z March 11  
(12 noon until 7 p.m. Sunday, March 10 CST)

Sponsored by the West Allis Radio Amateur Club

Full rules, information, and and entry form on pages 7 and 8

## PRB-1 Begins Move Toward Codification as Wisconsin Law

Wisconsin State Representative Ben Brancel (R-Endeavor) and Wisconsin Senator Richard Grobschmidt (D-Milwaukee) are proposing legislation to codify the FCC's Declaration of Federal Pre-Emption (PRB-1) as Wisconsin law.

A letter requesting legislative co-sponsors will be circulating legislative offices in late January. Co-sponsoring legislation is a courtesy legislators extend to their colleagues. A bill's chance at becoming law usually increases with a greater number of co-sponsors.

Radio amateurs favoring this legislation should contact their State Representative and Senator to encourage them to sign onto the bill as co-sponsors. After the co-sponsorship period, the legislation will be introduced and will receive a bill number.

PRB-1, in Part 97.15(e) of the FCC's Rules and Regulations governing the amateur radio service, says: "... State and local regulation of a station antenna structure must not preclude amateur service communications. Rather, it must reasonably accommodate such communications and must constitute the minimum practicable regulation to accomplish the state or local authority's legitimate purpose."

Please read the editorial on page 2 of this issue.

## Near Space Sciences will be out to launch with new project

### Join and rocket into ham radio history in Wisconsin

By Joe Mayenschein, WB9SBD

Near Space Sciences is proud to announce their latest journey to the "Edge Of Space". Except, this time, we're going sub-orbital! Be a part of this history-making project! We are looking for people from all across the state to work on this project.

Near Space Sciences will be in a joint venture with the Wisconsin Space Business Roundtable (WSBR). WSBR has had a program a few years called "rockets for schools", space and the shuttle launch and watching a sounding rocket launch. To make a long story short, they have had donated to them an actual NASA rocket, last heard, an \$18,000.00 rocket! The original payload was a simple temperature probe. WSBR heard of our balloon flights and contacted us to design a new and more interesting payload and program for them. Needless to say, we jumped at the opportunity, and the payloads will be tested sometime in February or March. A few details follow.

This rocket will actually go into space. We're looking at an altitude exceeding 280,000 feet! The payload will consist of an ATV (Amateur television) camera, a transmitter so send live images from space, and a GPS unit for precise location and altitude measurements.

All are welcome to come to the actual

launch to watch, currently scheduled for May 4 or 5, 1996. The launch site will be on the Lake Michigan lakeshore in Sheboygan.

A competition will be held across the state to choose five students from each of the following categories: Launch Team, Range Safety Team, Tracking and Communications Team, Payload Team, and Recovery Team.

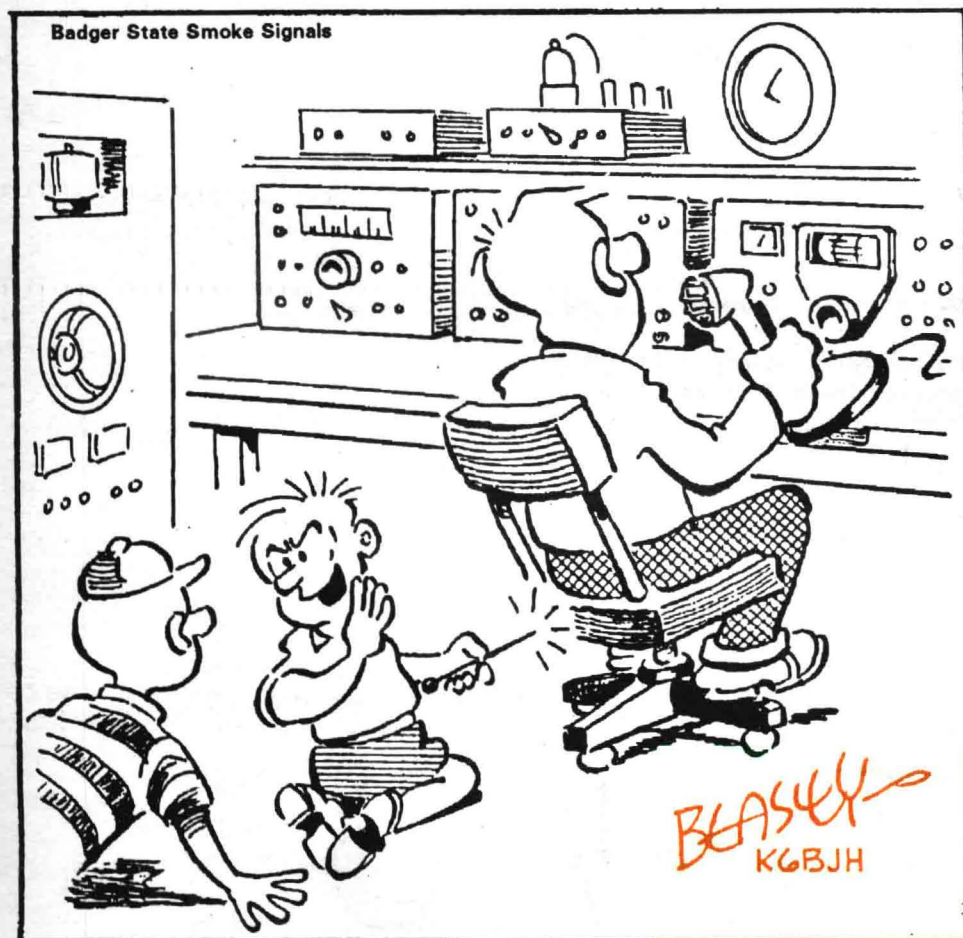
Prior to the rocket launch, Near Space Sciences will launch a balloon of its own that will have a cross band repeater, a color ATV system, and, of course, a GPS system. This will provide communication links between outlying areas and the launch site. Here is where you can join in.

We would like to have in each congressional district a station set up for the students who can't make it to Sheboygan for the launch. They can communicate through the balloon and or an InterNet site that will be on line live. If you're interested I would like to know. Please reply any of the following ways:

WB9SBD @ N9QIP.EN53HG.WI.USA.NA

or by Snail Mail to: Joe Mayenschein, Near Space Sciences, W10150 State Hwy. 33, Wonewoc, WI 53968. Phone 1-608-489-2998 after 7 p.m.

I'm looking forward to hearing from you. Join in the excitement!



THE LAST TIME I DID THIS, HE BLEW OUT A PAIR OF 811A MODULATORS

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# WHAT'S HAPPENING

✕ Swapfests and Other Social Events ✕ Club Meetings  
✕ Amateur Radio Exam Schedules

EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

## Swapfests

### and Other Social Events

TUESDAY, FEBRUARY 27, 1996. Red Cedar Repeater Association, Inc., American Legion Post 53, 634 Water St., Eau Claire, WI. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374.

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

SUNDAY, MARCH 31, 1996. LAMARSFEST. Lake County Fairgrounds, Grayslake, IL.

SATURDAY, MAY 4, 1996. 18th Annual Cedarburg Swapfest, 8:00 a.m. to 1:00 p.m., at the Circle-B Recreation Center, Highway 60 and County I (20 miles North of Milwaukee, West of Grafton). Contact: ORC Swapfest Chairman, W58 N985 Essex Drive, Cedarburg WI 53012-1439. Telephone (414) 377-2784 or (414) 284-3271.

SUNDAY, MAY 21, 1996. Lakeshore Hamfest and Computer Swapfest, sponsored by the ManCorad Club. Held at the Manitowoc County Expo, intersection of Hwys 42/151 and I-43 on Cty Hwy R. ARRL VEC Exams will be held at Silver Lake College, nearby, and DXCC QSL Field Checking will be available by the Northeast Wisconsin DX Assn. Contact Glenn, AA9MT (414 684-7096 or Red, N9GHE, (414) 684-9097 (nights) or write to ManCoRad, P.O. Box 204, Manitowoc, WI 54221-0204.

SUNDAY, MAY 11, 1996. Kankakee Area Radio Society Hamfest 96. Will County Fairgrounds, Peotone, IL.

SUNDAY, JUNE 1, 1996. Adams County ARC Spring Hamfest, Friendship, WI. Contact: Adams County ARC, PO Box 232, Friendship, WI. Phone (608) 564-7887. Packet N9TD-1 on 145.03.

See also the back page and flyer ads for additional information on many of these events.

SUNDAY, JUNE 2, 1996. Princeton Hamfest/Computer Show. Bureau County Fairgrounds in Princeton, IL. Sponsored by the Starved Rock Radio Club.

SUNDAY, JUNE 9, 1996. Cook County Hamfest at Santa Fee Park, 91st and Wolf Road, McHenry County Fairgrounds, Woodstock, IL.

SEPTEMBER 13, 14, 15, 1996. ARRL National Convention at Superfest 96, Peoria Civic Center, Peoria IL. For exhibition information contact: R & B Productions, 7150 University ST., Peoria, IL 61614 (309) 693-9667. Fax: (309) 693-3465. For general information contact: Ron Morgan, KB9NW, General Chairman, (309) 692-FEST. E-Mail: Superfest @ AOL.com.

SATURDAY, JULY 13, 1996. South Milwaukee Amateur Radio Club Swapfest, Legion Post, Oak Creek, WI.

SUNDAY, AUGUST 4, 1996. The Marshfield Area Amateur Radio Society will be holding their 5th annual picnic. Gather around 11:00 a.m. Potluck, Swapfest. In Wildwood Park, Marshfield, WI. Talk in on 147.180. All welcome. Contact: Guy A. Boucher, KF9xx, 107 West Third St., Marshfield, WI 54449. (715) 384-4323. Packet:KF9XX @ W9IHW.WI.USA.NA.

SUNDAY, OCTOBER 13, 1996. Kettle Moraine Radio Amateurs 1966 Computer Fair and Hamfest. Waukesha County Exposition Center in the Forum Building, Highways J and FT in Waukesha, WI. Contact KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411. Or call Ron at (414) 547-2219 or Andy at 549-0393.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swap fest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on

our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

## Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the November 1995 meeting column for the latest complete listing. The following are additions or changes since the listing.

### FALLS AMATEUR RADIO CLUB, INC.

The Falls Amateur Radio Club, Inc. meets the last Wednesday of the month at the Bank One building, Germantown, WI at Pilgrim and Mequon Roads. The doors open at 7:00 p.m. and the meeting will begin at 7:15 p.m. !!GUESTS ARE WELCOME!!

### YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: The meeting dates for 1996 are, Feb 14, Mar 14, Apr 16, May 15, Jun 13, Jul 16, Aug 14, Sep 12, Oct 15, Nov 13, with the Holiday party scheduled for Friday December 13, 1996. All meetings will be at the Baraboo Civic Center, room 14, unless otherwise noted. Starting time for the monthly club meeting is 7:30 p.m.. The program start time after the meeting is 8:00 p.m., with a one hour limit.

## Badger State Smoke Signals

### Amateur Radio Education and Information

**CHAIRMAN:** Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

**EDITOR:** Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

**TREASURER:** Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

**CONTRIBUTING AUTHOR:** Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

### Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

### When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

### Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Club, swapfest, and Test Point information should be sent to Ken Ebner.

Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

### Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.** This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901. *Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

### Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

## The Test Point



### Amateur Radio Examination Locations and Schedules in the Wisconsin Area

February 03, 1996	Oak Creek, WI (SWAT/MRAC)
February 03, 1996	Fond du Lac, WI
February 10, 1996	Madison, WI
February 10, 1996	Marshfield, WI
February 17, 1996	Loves Park, IL
February 17, 1996	Green Bay, WI
February 17, 1996	Milwaukee, WI (BADGER)
February 21, 1996	West Allis, WI (MRAC)
February 24, 1996	Tomahawk, WI
February 24, 1996	Wauwatosa, WI (MRAC)
March 02, 1996	Oak Creek, WI (SWAT/MRAC)
March 09, 1996	Madison, WI
March 16, 1996	Loves Park, IL
March 16, 1996	Milwaukee, WI (BADGER)
March 20, 1996	West Allis, WI (MRAC)
March 23, 1996	Menomonie, WI
March 23, 1996	Appleton, WI
March 30, 1996	Tomahawk, WI
March 30, 1996	Wauwatosa, WI (MRAC)
April 13, 1996	Green Bay, WI
April 13, 1996	Marshfield, WI
April 20, 1996	Milwaukee, WI (BADGER)
May 04, 1996	Milwaukee, WI (BADGER)
	Ozaukee Swapfest
May 11, 1996	Manitowoc, WI
	Lakeshore Hamfest
June 15, 1996	Appleton, WI
September 14, 1996	Appleton, WI
November 2, 1996	Menomonee, WI
November 3, 1996	Kaukauna, WI
	Fox Cities Swapfest
November 9, 1996	Marshfield, WI
Monthly, 1st Sat.	Racine, WI
	(except January, July & August)
Monthly, 1st Sat.	Oak Creek, WI (SWAT/MRAC)

(except May, June, July & August)  
 Monthly, 2nd Sat. Madison, WI  
 Monthly, 3rd Wed. West Allis, WI (MRAC)  
 Monthly, 3rd Sat. Loves Park, IL  
 Monthly, Last Sat. Wauwatosa, WI (MRAC)  
 (except December)  
 Monthly, Last Sat. Tomahawk, WI  
 (January thru October only)  
 Quarterly Marshfield, WI  
 (Second Saturday every third month.)

QST de W1AW  
 ARRL Bulletin 101 ARLB101  
 From ARRL Headquarters  
 Newington CT November 1, 1995  
 To all radio amateurs

SB QST ARL ARLB101  
 ARLB101 1996 VE test fees set

Effective January 1, 1996, the maximum allowable reimbursement fee for an amateur operator license examination will be 6.07 dollars. The FCC set this amount based on the Consumer Price Index between September 1994 and September 1995 and it will be an increase from the current 5.90 dollars.

Volunteer examiners and volunteer examiner coordinators may charge examinees for out of pocket expenses incurred in preparing, processing, administering, or coordinating reexaminations for amateur operator licenses. The amount of any such reimbursement fee from any one examinee for any one examination session, regardless of the number of elements administered, must not exceed the maximum allowable fee.

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

#### GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

#### MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) OAK CREEK, WI (SWAT -MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 -blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card:

print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

#### BADGER EXAMINERS (BE) - MILWAUKEE Amateur exams: 1:00 p.m. to 4:00 p.m. Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building starting at 9:00 a.m. for commercial exams and Amateur exams at 1:00 p.m. the same day. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

#### MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, N29B

#### RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

#### REDGRANITE, WI (W5YI VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River rd., just off Highway 21. Testing begins at 9:00 a.m. Breakfast meeting at 8:00 a.m. at the Curve on Highway 21 prior to testing session. All Amateurs are welcome at the breakfast. Contact Terry Lynn Witt, AA9BA, 9145 Ivy Lane, Berlin, WI 54923.

#### RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to Robert N. Jensen, W0WLN, 5616 Cambridge lane #6, Racine, WI. Telephone (414) 886-8551.

#### TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

#### STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

#### APPLETON, WI - ARRL/VEC

#### MANITOWOC, WI (HAMFEST)

#### KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967, or Larry Siebers, KD9IA (414) 730-0967.

#### MENOMONIE, WI

The Menomonie VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication

Center, 820 South Broadway, Menomonie, WI. Use the north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

#### MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave. On 10 February 1996 in room 124 in the School of Nursing. On 13 April and 9 November in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

#### GREEN BAY, WI (ARRL/VEC)

Ashwaubenon High School, 2391 S. Ridge Road, Green, Bay. Checkin at 8:00 a.m. and testing starts at 9:00 a.m. Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

#### FOND DU LAC, WI (ARRL-VEC)

February 3, 1996

Sponsored by the Fond du Lac Amateur Radio Club. From 9:00 a.m. to Noon at the Community United Methodist Church located at 701 Minnesota Ave., in North Fond du Lac, WI. All level tests, walk-ins welcome. Contact: Doug Schultz, N9EZF, (414) 922-3088.

#### BARABOO, WISCONSIN

Location: Public Library, Baraboo, WI. Contact: Steve Schwoegler, WB9RNL, (608) 254-2895.

CEDARBURG, WI - ORC HAMFEST  
 EAU CLAIRE, WI - ECARC HAMFEST  
 GREEN BAY, WI - ARES HAMFEST  
 KAUKAUNA, WI - SWAPFEST  
 MANITOWOC, WI, LAKESHORE HAMFEST  
 MARSHFIELD, WI - HAMFEST  
 OAK CREEK, WI - SMARC HAMFEST  
 RACINE, WI - RACINE HAMFEST  
 RHINELANDER, WI - NWARC SWAPFEST  
 ROCKFORD, IL - RARC HAMFEST  
 ROTHSCHILD, WI - WVRA HAMFEST  
 SOUTH MILWAUKEE, WI - SMARC HAMFEST  
 STEVENS POINT, WI - CWRA SWAPFEST  
 WAUKESHA, WI - KMRA SWAPFEST  
 WAUKESHA, WI - MIDWINTER SWAPFEST  
 DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

#### GREAT RIVER AMATEUR RADIO CLUB

#### DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

#### LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

#### MINNESOTA TEST INFORMATION

From the December 1995 edition of "The Ground Wave", Saint Paul Radio Club.

#### Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, K0QBE (612) 222-7253

Test Site: St. Paul Technical College

235 Marshall Ave.

St Paul, MN

TESTING: First Saturday of the month, 8:30 a.m.

#### Anoka Amateur Radio Club (AARC)

Contact: Art Mundy, W0FYX, (612) 571-7441

Test Site: Blaine City Hall

9150 Central Ave NE

Blaine, MN

TESTING: Second Saturday of the month, 9:00 a.m.  
 (continued on page 15)

# Wisconsin Nets Association Ltd.

Jim Merrill, W9AYK, Secretary • W283 Hillendale Drive • Oconomowoc, WI 53066

## SECTION MANAGER'S NOTES



Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221



Wisconsin QSO Party is March 10, please participate; contacts also count toward WAWC award.

SEWFARS Swapfest, Waukesha County Expo Center is March 10.

Wisconsin Nets Association on-the-air meeting is Mar 17 at 12:30 P.M. on 3.985 MHz.

The QCWA phone contest is March 9 and 10.

Exams Mar 2 Oak Creek, Mar 9 Madison, Mar 16 Milwaukee, Mar 23 Menomonie, Mar 30 Tomahawk and Wauwatosa.

Rock River RC has honored K9FHI as Ham of the Year.

Wisconsin Association of Repeaters officers: ch WA9JOB, vch KB9ENO, treas K9OQO, secy KF9CS. For info about WAR contact Frequency Coordinator N9UNR in West Bend. Newly coordinated repeaters: Merrill 147.285 MHz, Solon Springs 147.390 MHz, Shell Lake 147.045 MHz, Cameron 146.715 MHz, Rice Lake 144.110 MHz.

Connect to N9PBY packet BBS for on-line Emergency Response Guidebook.

Adams County ARC, formed one year ago, enjoys their repeater and wide range packet node; officers: pres N9TD, vp N9SZE, treas/secy KF9-ZU.

St. Croix Valley RA officers: pres KB9BTB, vp KB9HTN, treas N9MLF, secy N9ZAD.

Add these items to your March calendar: Contact your local Explorer Post and encourage Scouts

## Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1200	0600	W9AYK
BEN	Yes	3985	1800	1200	KE9VU
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	0000	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9UW
NWTN	Yes	34/94	0030	1830	NS9Q

(Rhinelander area)

RCRA	No	01/61	0030	1830	KA9OMC
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(Mondays CST) (Menomonie Area)

Gr. Bay	No	72/12	0245	2045	WB9NRK
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(Green Bay Area)

ARES	No	4.65/5.25	0200	2000	
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(South East/South Central Wisconsin)

RACES	No	3993.5	1400	0800	
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WA9OAY

(LSB Sunday)

to pursue their interests in AR. Form delegation for Dayton Hamfest. Arrange for publicity for Field Day. Plan graduation party for spring license graduates. Contact your town officials and offer communications assistance for spring marathons, races, parades and special events. Inform your club officers of communication opportunities.

Sorry to report Silent Key: KA9VPE.

Wisconsin has 9,894 amateurs, 2,594 ARRL members and a population of 5,085,000. Please let your friends know about League membership benefits and encourage them to join too.

Let me know if you would like a free list of 127 Wisconsin nets or 111 clubs.

Do you know of someone who would like to be ASM for Youth Activities?

Thought for the month: *Never test for an error condition you don't know how to handle.* □

not what we might like. Remember, though, that your lawmakers are people. They deserve the very same respect you would expect.

If you do not know who your Wisconsin Representative and Senator are, you can telephone your city hall, village hall, county clerk, town chairman, or the nearest public library. They'll be happy to help you learn more about it.

PRB-1, as Wisconsin law, will provide radio amateurs with access to state courts in legal challenges to laws which do not pass PRB-1 muster. At least six other states have already codified PRB-1.

Laws which fly in the face of PRB-1's intent damage our own capability to do what we do so well: provide good, dependable emergency communications. We can still get the messages through, even when everything else (yes, even cellular telephones) go down.

You are strongly encouraged to put this newspaper down right now and write letters of support to your Representative and Senator. Ask them to sign onto the bill as co-sponsors. Rep. Brancel and Sen. Grobschmidt are working to help us. We have to help them, too. Do it - write! Please send copies of your letters to Wisconsin Section ARRL State Government Liaison Verne Teske, W9RYA, 3260 Carol Court, Oak Creek, WI 53154.

Thanks to Rep. Brancel and Sen. Grobschmidt for their help in starting the process of codifying PRB-1 as Wisconsin law. □



# SSB

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## OUR WANT ADS GET RESULTS

FOR SALE: Icom IC-24AT dual-band handheld transceiver. As it came in the box with one extra battery pack. This receiver has very wide band receive capability. \$275 shipped. Many accessories available at a reasonable price. Bill Lowe, WJ9S, S5802 County B, Eau Claire, WI 54701. lowe@edp.net (715) 833-1811. □

## Training Scheduled

On March 9, 1996, Tom Weeden, WJ9H, South Central Skywarn Emergency Coordinator, Gary Cannalte, WU9U, Channel 3 TV weatherman, representatives from NOAA, and the Dane County ARES will conduct a Skywarn Advanced Severe Weather Reporting training seminar for all Amateur Radio operators who desire to attend. There is no cost for this training.

The training will be conducted in Room 142 of the Madison Area Technical College (MATC), located at the intersection of Wright and Anderson Streets (1 block west of Hwy. 51). The training will start at 11 AM and end at approximately 2 PM. All Amateur Radio operators are encouraged to attend.

For further information, feel free to contact Tom Weeden at 1-608-276-7915, or by packet at: WJ9H@N9KAN.EN53JB.WI.USA.NOAM. or on the internet TCWEEDEN@AOL.COM.

- Mack Brophy, N9NTB

## Wisconsin Nets Association Boosters Information

During the last "On The Air Meeting" December 9, 1995 of the Wisconsin Nets Association it was requested that I send the *Badger State Smoke Signals* a news item regarding WNA dues. The WNA Booster dues are \$4.00 per year, and run currently from the last date your previous dues were received. For instance, if your last dues were received during June 1995, your next booster dues will be due June 1996. It is my intent to notify each WNA member by radiogram when his or her \$4.00 dues are due for the next year.

For new members wishing to join the WNA, the initial payment is \$10.00, which includes one years' WNA dues, a computer disk containing the WNA manual and a WNA certificate.

If you are a member of the WNA and wish to renew your BSSS subscription through the WNA, send me a check for \$12.40. This includes \$4.00 WNA dues and \$8.40 for the BSSS, which I will forward to BSSS. We are aware that many WNA members renew their BSSS thru other organizations, in which case the WNA dues (\$4.00) are sent to me and their BSSS subscription is sent direct to BSSS or thru the other organizations. We thank you for your support.

- Fred Becker, W9KKM, Treasurer  
1630 Valley Drive  
Wisconsin Dells, WI 53965

**INTERNET:** Baraboo is a small city, so I guess it is logical that a local access number for the InterNet was a little slow getting here. But, there now is a local number, and BSSS will be aboard after our publisher looks over all the small print in the info sheet. The primary reason we're going netting is that most of our news sources have moved to the net.

It's also been suggested that we publish the InterNet addresses for our readers of hams who want them listed. Please don't send any addresses until we tell you we are ready.

**NEWS AND PHOTOS:** If this issue looks a bit "naked," it is because we had no photos to print. Hams do interesting things all the time, and we used to get good stories and photos. DXpeditions to rare DX spots like St. Miquelon are good examples of newsworthy and photoworthy stories. Most of the pix we do get are of old-timers, when the hobby is for people of all ages. Reader participation is crucial to the survival of newspapers like this one. How about a story or two? Thanks! □

## From the Old Goat

Jim Romelfanger,  
K9ZZ, Editor



## WRITING TO YOUR LEGISLATORS: SOME DOs AND DON'Ts

As indicated in the PRB-1 story on the front page, now is the time for all good radio amateurs to come to the aid of this legislation.

There are right ways and wrong ways to do that. Two of the wrong ways are photocopied form letters (even when each one is signed by a different individual), and club "resolutions" in support of a bill (these carry very little weight). Form letters are spotted a mile away, and just do not have the impact that a well-written individual letter has.

Your letter in support of codifying PRB-1 as Wisconsin law should be your own letter, written in your own words. It probably should be typed or written with a word processor, but hand-written letters are just as effective and given just as much consideration by lawmakers.

Simply asking your State Representative and your State Senator to sign onto the bill is fine. But if you have something to add to support your request, add that to your letter.

Be courteous! Sometimes the lawmaking process does get complicated and sometimes the results are

## Don't Climb!

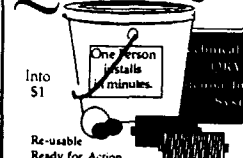
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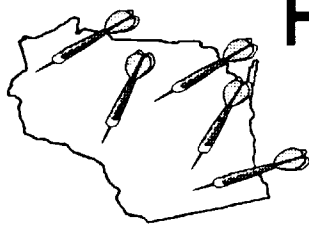
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## HERE and THERE

### Ham radio power supply aboard Mir fails

German cosmonaut Thomas Reiter, DF4-TR/DP0MIR, aboard the Mir orbital complex, reports that a power supply used for some of the spacecraft's ham radio equipment failed on New Year's Eve. The remaining, older power supply is only capable of powering the old Icom 2-meter transceiver and one 1200-baud TNC. The digital voice module also has failed, so there will be no more automatic voice recordings in the near future.

Reiter reports all four fuses in the two connected transceivers have blown and only two spare fuses remain. Last month, Reiter used the digital voice recorder, built by Thomas Kieselbach, DL2-MDE, to broadcast holiday messages. The primary transmitting frequency is 145.800 MHz.

Recently, the cosmonauts on Mir unpacked new Amateur Radio equipment delivered by rocket, including a 70-cm FM transceiver and 9600-baud packet gear.

Reiter was philosophical. "Well, at least we can be reached and still can talk with the world," he said in a message to Dave Larsen, N6JLH.

- ARRL Bulletin ARLS001, 1/19/96

### Attorney-Ham Cites Ohio TVI Arrest as Possible Warning

In the wake of the December arrest of a Moraine, Ohio, CBer for causing TVI at his neighbor's apartment, Dayton attorney and Amateur Radio operator Ron Pretekin, AB8K, says "hams should take note of what such problems can lead to."

Pretekin pointed to an article in the *Dayton Daily News* describing the circumstances under which the CBer, Steve Holbrook, would up in jail on a third-degree felony charge of disrupting public services for interfering with his neighbor's reception of cable television programs. According to the report, Holbrook and the neighbor had feuded over the problem for several months. His arrest came after the neighbor tape-recorded Holbrook's CB chatter as it came over his TV. The newspaper said the conversation included profanity and threats against the neighbor. If convicted, Holbrook faces a maximum \$5000 fine and ten years in jail, the paper said.

ARRL Executive Vice President David Sumner, K1ZZ, observed: "The FCC has exclusive authority to regulate RF interference, which is not subject to local law." (Bold type added by BSSS.)

Sumner says an attorney representing an ARRL member facing charges based on RF interference would be able to look to the League for some help. "However, we would hope that any licensed amateur would have the good sense to not inflame the situation in the manner described by the newspa-



## For The Ladies

By Nancy Johnson,  
N9NZM  
407 Adams Street  
Fort Atkinson, WI  
53538

This month we will visit a repeater club I belong to, but first a plug: SEWFARS SWAPFEST, SUNDAY, MARCH 10, 1996, 8:00 AM-2:00 PM, WAUKESHA COUNTY EXPO CENTER; \$4.00 IN ADVANCE, \$5.00 AT THE DOOR RESERVED TABLES, 4 FT., IN ADVANCE \$5.00, \$6.00 AT THE DOOR RESERVATION DATE FEBRUARY 23, '96

In 1993, SEWFARS had only 30 members and was less than solvent. It was the work of all the members to recruit new members, as well as last year's swapfest, that showed the big turnaround. March 10 is this year's fest. But there's much work to be done by all to increase the likelihood of staying in the black this year, and planning for next years fest. If you are wondering what you can do I have some suggestions: One is to buy your tickets now, but more important is to reserve your table. Last year Jam Lazachek, KF9GG, turned away many people who had planned to buy tables at the last minute, unregistered. This year at this time we have an abundance of tables, but it helps the last minute crunch to pay for and reserve one ahead of time. It also guarantees a good spot, not somewhere you don't want.

Last year, the club made enough money to invest in equipment for the 146.82 repeater. They increased the quality and strength of the repeater for all those who join as members. They also put on a new door and secured the site to keep mice from damaging the equipment. As Amateur Radio operators, we mark our calendars and try to arrange time off jobs so we can fight the crowds, pick up touch and play with equipment we'd like to afford. So why not help a fellow ham out and take time ASAP to reserve a table and buy your tickets. Come on, guys and gals.. Jam Lazachek, KF9GG, can be contacted at 414-789-1034, or contact Mary Adams, KB9IFF, at 414-358-8971. To pre-register for an exam, call Al Johnson AA7CS at 414-568-0836.

per," Sumner added.

- The ARRL Letter, 1/12/96

### Canadian Calls Commemorate Holocaust's End

Industry Canada Quebec Region has authorized all Canadian hams to use special prefixes through February to mark the 50th anniversary of the end of the Holocaust:

Regular Prefix	Special Prefix	Regular Prefix	Special Prefix
VE1	CF1	VA7	CG7
VA2	CG2	VE7	CF7
VE2	CF2	VE8	CF8
VA3	CG3	VE9	CF9
VE3	CF3	VO1	CZ1
VE4	CF4	VO2	CZ2
VE5	CF5	VY1	CK1
VE6	CF6	VY2	CK2

- The ARRL Letter, 1/12/96

Switching topics now..

When a job hunting I did go..  
a rolling along so happily..  
Then away my car did shudder,  
and I wondered what could be the matter.  
I took myself a look  
and what to my eyes should appear  
but a gaping hole and steel belting.  
I pulled the auto over,  
scratched my head,  
and wondered what shall I do?  
When in my brain there arouse a clatter..  
**USE THE RADIO!**  
The access code I did lack,  
now where's my jack?  
I gave a shout and  
who should appear but JPI.  
After all what's that old rig for, anyway??  
With all the waiting I did do  
I scribbled this strange poem  
to give a giggle or two,  
all for the lack of nothing to do.  
So I hope to hear a giggle or two..  
ladies and guys too.

I have just about used all the information I have been sent. I have only two letters left on the YLRL, then it will be slim pickins. How about starting the new year out with a contest? I'm hard enough up to try anything to get you ladies to write. So even though Jim Romelfanger will kill me, here it goes these are the rules:

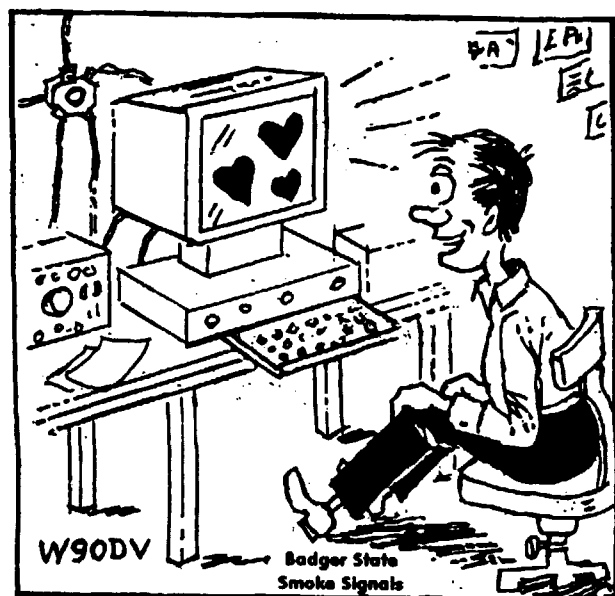
1. You must be a licensed ham, all entries will be printed.
2. You must submit an article to participate.
3. You may enter more than once
4. To give out prizes I must have more than 5 articles a month and less than 100. I will number and date each article as its printed so that you the reader can keep up with numbers. If I don't receive more than 5 a month that's OK, it'll just take longer to give out prizes.
5. If we ever reach 100 letters, they will be filed and we will start all over again with new entries. Include name call sign, how many years, club involvement, likes and dislikes of ham radio. Well, now it's up to you. Without your participation in this column it's difficult to write. □

### Astronaut Hams Marry

In what appears to be a "first" for ham radio and for the space program, astronauts Steve Nagel, N5RAW, and Linda Godwin, N5RAX, were married December 29. Steve and Linda flew together on STS-37 in April, 1991. Both have appeared as speakers for ARRL at conventions. Steve conducted a SAREX forum at the 1994 Dayton Hamvention, and Linda helped ARRL Educational Activities Department head Rosalie White, WA1-STO, with youth forums in Dallas in 1992 and Tulsa in 1994. Linda also has done public service announcements about ham radio for ARRL, and she appears in the ARRL videotape, *Ham Radio in Space*.

Nagel was the commander aboard space shuttle mission STS-55 in April 1993, operating the

Please turn to page 12



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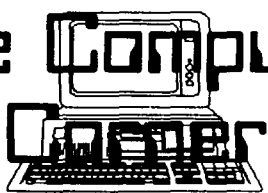
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February 1996

# The Computer



By Stan Kaplan, WB9RQR

105 Martin Drive

Port Washington, WI 53074-9654

(414) 284-9346

WB9RQR @ N9PBY.EN63BI.WI.USA.NA

SKAPLAN @ POST.ITS.MCW.EDU

## No. 28: SECTORS, CLUSTERS, AND LARGE HARD DRIVES

About a year ago, I quoted a prediction that hard drive prices would fall to 10 cents per megabyte in January 1996. At this writing (26 Nov 95), it is still not known if they will reach that mark, but the December 1995 issue of Computer Shopper carried an ad for a Fujitsu 1090 megabyte drive for \$209, which works out to about 19 cents a meg. The point is, prices are dropping, and a lot of hams are upgrading to larger drives. With that upgrade comes a decision as to how to partition the drive. One big partition, or do you create several smaller ones (drives C:, D:, E:, and so on)? In some cases, the decision is made for you; if your computer has a standard BIOS, the largest single partition you can have is 504 megabytes.

Why? What is all this about clusters, sectors, heads and stuff, and why does it place limitations on the size of a C: partition? To answer this, let us begin by reviewing terminology. You probably already remember that a bit is like a single toggle switch - either on or off - and a byte is like a bank of 8 toggle switches, each one of which can be on or off. A single character, the letter A for example, requires a particular pattern of on or off positions in

the bank of 8 toggle switches. The actual pattern is:

0100 0001

which turns out to be simultaneously both a binary number and a sort of "picture" of 8 switches and whether each is on or off. Starting from the right (because that's how binary numbers are read), the 1st and 7th switches are ON, while all the rest are off. We humans hate to work with binary notation because the numbers are so hard to read, so we convert to a different numbering system (hexadecimal). The hex representation of the letter A is 65h (the lower case h just tells that the number is in the hexadecimal system). Nevertheless, 65h is a number that can be converted to a binary number, and that binary number is a direct "picture" of 8 toggle switches, and whether each is on or off.

Now, it turns out that 512 bytes is a sort of magic number in the world of hard drives. It is the smallest "chunk" of information that the hardware can read from or write to the hard drive at one time. To help you relate to the size of this number, if you type a paragraph on a 3" X 5" card, leaving a nice white margin all around, the letters and spaces between them occupy about 512 characters and spaces. This index card worth of information that can be written to or read from a hard drive in one fell swoop is called a SECTOR.

So a sector is 512 bytes long, - by a hardware limitation. But there is also a software limitation. Whenever DOS creates a file, it must allocate a certain number of sectors to that file, as it creates it. This group of neighboring sectors (next to each other on the drive platter) is known as an ALLOCATION UNIT or a CLUSTER. If your hard drive is below 16 megabytes in size, a cluster consists of just one sector, 512 bytes. That means that, if you create a file named STAN with just this in it: WB9RQR (6 bytes long), it will occupy 512 bytes of disk space. The unused 506 bytes (sometimes

called CLUSTER OVERHANG) are locked away; they are empty but already allocated to the file STAN and cannot be used for anything else unless the file is erased. On the other hand, if your hard drive is between 16 and 128 megabytes in size, each cluster occupies 2,048 bytes or 4 sectors. The file STAN, containing only 6 bytes, would have a cluster overhang of 2,042 bytes. Even larger hard drives have larger clusters, up to 64 kilobytes in size (128 sectors of 512 bytes each). Of course, cluster overhang increases proportionally. Cluster overhang will be the subject of a later article.

Why does cluster size vary? Because DOS has a filing system that keeps track of every file on your drive by giving each cluster a unique number. The filing system itself (File Allocation Table or FAT) has a size limit; it cannot exceed 65,536 bytes (64 kilobytes). So, if the FAT is limited in size, something else has to be larger on larger hard drives. The number that gets larger is the number of sectors per cluster; cluster size increases.

Well then, if there are limits on the FAT (64 kilobytes) and limits on the clusters (64 kilobytes), then there must be some limit on the physical tracks (cylinders), heads and sectors that a hard drive can hold. There are, and the result is that the following MAXIMUM values are in place in a standard BIOS for any hard drive:

CYLINDERS	HEADS	SECTORS
1,024	16	63

If you multiply 1,024 cylinders X 16 heads X 63 sectors X 512 bytes per sector, the result is 528,482,304 bytes or 504 megabytes. That's it, the magic number over which DOS cannot go. That is it. If you want a single C: partition on that new drive, it can only be 504 megabytes in size.

That is not to say you cannot partition that new drive which is 1,080 megabytes when formatted to a C: and D: drive. Note, however, that since each can only be 504 megabytes in size, a C: and D: will only occupy 1,008 megs; you will lose 1,080 - 1,008 = 72 megabytes. Perhaps C:, D: and E: partitions would be better, so you don't wind up with any unused space. Remember also, that if you have a CD ROM currently designated as drive D:, it will have to become drive F:, if you partition the new hard drive as C:, D: and E:.

Confusing, isn't it? You bet. On top of that, some hard drive manufacturers are adding another confusing factor. Remember that a kilobyte is 1,024 bytes, and a megabyte is 1,048,576 bytes? Therefore, 100 megabytes is 104,857,600 bytes. Well, suppose you are a hard drive manufacturer and you make a new model that holds exactly 100,000,000 bytes after it is formatted. Can you call it a 100 megabyte drive? No, absolutely not, since 100,000,000 is less than 95% of 104,857,600. However, it would sound better in advertising if it could be called a 100 megger. So some manufacturers have started advertising their drive's capacities using decimal notation (100 megabytes) instead of hexadecimal (95 megabytes), and it is difficult to tell which companies are being honest and which are not. Furthermore, some manufacturers are advertising drives based on the unformatted capacity, which can be a number considerably larger than the actual usable space on the drive. Use care in examining advertising claims. Be sure you know exactly what you are getting. You want to know what a drive will hold after formatting, and you want that number in accurate, hexadecimal notation. Happy computing!

*Reprinted, by permission, from the ORC Newsletter, Ozaukee Radio Club, P.O. Box 13, Port Washington, Wisconsin 53074 (Skip Douglas, KA9DDN, Editor).* □

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# 1996 Wisconsin QSO Party



Sponsored by the West Allis Radio Amateur Club

The 1996 Wisconsin QSO Party will be held from 1800Z Sunday, March 10 to 0100Z Monday, March 11, 1996 (12 noon to 7 p.m. Sunday, March 10, 1996).

The 7-hour sprint-type contest is known nationwide for its high participation and fun. It is also a rich source of the rarer Wisconsin counties for out-of-staters who are county hunters. It's enjoyable for serious contesters and casual operators alike, and you're very likely to run into a few old friends you haven't talked to for a while, and you'll make some new friends, too.

In the 1995 party, the winner in the single operator fixed station category was W9WAQ in Dodge county with 44,634 points. He received a plaque for that effort. Best single operator mobile went to WB9HRO, who operated from four counties and tallied 11,270 points. Multi-op mobile was W9IEI, who worked from eight counties and ran up a score of 9,818. Best multi-op multi-transmitter mobile was N9EZ, who operated from 17 (that's right, 17!) counties, which resulted in a score of 46,316. Single-op Technician went to N9QBU, Dodge county, with 3,264 points, and the top multi-transmitter, multi-op entry came from K9EAM, Brown county. They ran up a score of 19,880 points. The top Wisconsin club score in the club aggregate score competition was the Kettle Moraine Radio Amateurs, with a combined member score of 160,889. That score includes the multi-op, multi-transmitter mobile effort of N9EZ mobile listed above.

The highest out-of-state score was from K9OM in neighboring Illinois with 11,750 points. Entries were received from a large number of states as well as Ontario.

Band conditions weren't the best last year, but it is safe to say that a good time (though maybe a bit frustrating) was had by all.

If you are in one of those "rarer" Wisconsin counties, why not pop on the air for an hour or two and enjoy being even more popular than you usually are by giving a multiplier that might not otherwise be available? Even if you are not a contesteer by "trade," you'll have fun.

For the out-of-staters, we would respectfully ask that you send SASEs with your QSLs. It's a courtesy that is appreciated, and will give you a better chance at receiving that card you want.

And, to all: *This QSO Party is just plain enjoyable! You don't have to be a "big gun". "Little pistols" will do well, too, and everyone will have fun. It will also help peak up your operating skills.*

So, set Sunday, March 10, 1996 aside, from noon until 7 p.m. CST - and enjoy! □

## USED AMATEUR RADIO EQUIPMENT

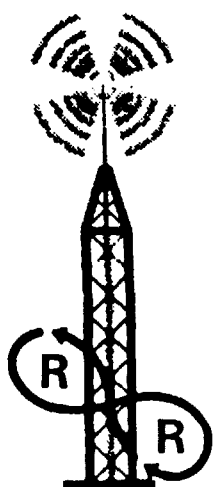
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RIC richland  
ROC rock

RUS rusk  
SAU sauk  
SAW sawyer  
SHA shawano  
SHE sheboygan  
STC st croix  
TAY taylor  
TRE trempealeau  
VER vernon  
VIL vilas  
WAL walworth  
WSB washburn  
WAS washington  
WAU waukesha  
WAP waupaca  
WSR waushara  
WIN winnebago  
WOO wood.

## CANADIAN PROVINCES

ALB alberta  
BC british columbia  
LAB labrador  
MAN manitoba  
NB new brunswick

NEW newfoundland  
NWT northwest territory  
NS nova scotia  
ONT ontario

PEI prince edward island  
QUE quebec  
SAS saskatchewan  
YT yukon territory

## STATES

AL alabama  
AK alaska  
AZ arizona  
AR arkansas  
CA california  
CO colorado  
CT connecticut  
DE delaware  
FL florida  
GA georgia  
HI hawaii  
IA iowa  
ID idaho  
IL illinois  
IN indiana  
KS kansas  
KY kentucky

LA louisiana  
MD maryland (D.C.)  
MA massachusetts  
ME maine  
MI michigan  
MN minnesota  
MS mississippi  
MO missouri  
MT montana  
NE nebraska  
NV nevada  
NH new hampshire  
NJ new jersey  
NM new mexico  
NY new york  
NC north carolina  
ND north dakota

OH ohio  
OK oklahoma  
OR oregon  
PA pennsylvania  
RI rhode island  
SC south carolina  
SD south dakota  
TN tennessee  
TX texas  
UT utah  
VT vermont  
VA virginia  
WA washington  
WV west virginia  
WI wisconsin  
WY wyoming

SUGGESTED ABBREVIATIONS

## 1996 WISCONSIN QSO PARTY RULES



### DATE/TIME:

1800Z MARCH 10 - 0100Z MARCH 11, 1996

### MODES:

CW and Phone. All stations may be worked once per mode on each band. In addition, mobiles may be worked once per mode per Wisconsin county that they operate from. **No Repeater QSOs.**

### ENTRY CLASSES:

Single Operator Fixed	Multi Operator Fixed	Multi Xmtr/Multi Op Fixed
Single Operator Mobile	Multi Operator Mobile	Multi Xmtr/Multi Op Mobile
Single Operator Novice	Multi Operator Novice	Multi Xmtr/Multi Op Novice
Single Operator Tech	Multi Operator Tech	Multi Xmtr/Multi Op Tech

### EXCHANGE:

Wisconsin stations send county.  
Non-Wisconsin stations send state or province or country.

### FREQUENCIES:

CW: 3550, 3705, 7050, 7125, 14050, 15M CW, 10M CW, 6M CW, 2M CW  
Phone: 3890, 7230, 14290, 21350, 28400, 6M SSB & FM, 2M SSB & FM  
\*\* Suggested - others may be used \*\*

### SCORING:

Phone contacts count 1 QSO Point; CW contacts count 2 QSO Points.

**WISCONSIN STATIONS:** Multiply the sum of QSO points by the sum of Wisconsin counties (max. 72), plus states (max. 50) plus Canadian provinces (max. 13) worked. Note: DX countries worked count for QSO points but not as multipliers.

**NON-WISCONSIN STATIONS:** Multiply the sum of QSO points by the number of Wisconsin counties worked (max. 72).

### BONUS:

**WISCONSIN MOBILES/PORTABLES:** Add 500 bonus points for each county that you operate from, outside your home county, with a minimum of 15 QSOs per county to qualify.

### LOGS:

Entries must contain a log consisting of: Time (GMT), call, band, state/province, Wisconsin county, mode and a complete Score Summary including YOUR name, address and call. Circle new multipliers as worked. Logs containing more than 200 QSOs must be accompanied by a dupe sheet (separate dupe sheet for each mode). Mobile entries must indicate county changes in log.

Entries must be postmarked by **March 31, 1996** and sent to:

WISCONSIN QSO PARTY  
WEST ALLIS RADIO AMATEUR CLUB  
P. O. BOX 1072  
MILWAUKEE, WI 53201

### AWARDS:

**NON-WISCONSIN:** Awards will be presented to the following:

- Highest single operator score in the QSO Party.
- Highest single operator score in each single operator category in each state/province.

**WISCONSIN:** Awards will be presented to the following:

- Highest single operator score in the QSO Party.
- 10 highest single operator scores in each entry class.
- Highest multi-operator score in each entry class.
- Highest aggregate club score (club member stations to be located within 50 miles of the club, except for mobiles).

# Music Alive

By Richard R. Regent, K9GDF  
5003 South 26th Street, Milwaukee, WI 53221

It is a Fall evening. My wife Barb, N9DIJ, and I arrive at Milwaukee's Performing Arts Center to enjoy the kickoff concert of the Milwaukee Symphony Orchestra. The performance features clarinetist Eddie Daniels and Director Doc Severinsen. After the performance we hope to catch a glimpse of Eddie, who I admire for his brilliant musical virtuosity. We wait outside at the stage door, but do not see him. I even have my clarinet lapel pin on my suit! Well, I guess there's no autograph tonight.

Then my article "The Extra Exam of Music" appears in the December issue of Badger State Smoke Signals describing how I auditioned for the Milwaukee Symphony Orchestra. In the article I mention Eddie Daniels.

In a few weeks, alert BSSS reader Mark Thompson, WB9QZB (born and reared in Baraboo, WI) of Arlington Heights, Illinois, replies with a letter. Unbelievably, Mark and his wife Lisa not only also attended the concert featuring Eddie and Doc, but afterwards they went out to dinner with them! Mark says they had a great time and ran into Mitch Miller while at the restaurant.

How can this happen? Well, Lisa is an outstanding clarinetist herself and is a friend of Eddie Daniels. She is President of **International Music Suppliers** headquartered in Mount Prospect, Illinois, and runs another business, **Music Starts Here**, which rents instruments to kids in local schools.

So here is perhaps another example of how networking operates and how well BSSS covers the area with news. Sometimes I think there are links between everyone. It can be a tricky task to find the clues, but results can be amazing. How about you? Do you like music?

**Please send a photo of yourself or your team of your participation in the Wisconsin QSO Party. The photos will be published with the results in our June issue. Photos may be sent with your entry, or you may send them to the BSSS editor. See page 2 for the address. Thanks!**

## 1996 WISCONSIN QSO PARTY SCORE SUMMARY SHEET

Name \_\_\_\_\_ Call \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip \_\_\_\_\_

Home WI County \_\_\_\_\_ Club Affiliation \_\_\_\_\_

**ENTRY CLASS:**

<input type="checkbox"/> Single Op Fixed	<input type="checkbox"/> Multi Op Fixed	<input type="checkbox"/> Multi-Multi Fixed
<input type="checkbox"/> Single Op Mobile	<input type="checkbox"/> Multi Op Mobile	<input type="checkbox"/> Multi-Multi Mobile
<input type="checkbox"/> Single Op Novice	<input type="checkbox"/> Multi Op Novice	<input type="checkbox"/> Multi-Multi Novice
<input type="checkbox"/> Single Op Tech	<input type="checkbox"/> Multi Op Tech	<input type="checkbox"/> Multi-Multi Tech

WI Counties Worked From \_\_\_\_\_

<b>SCORING:</b> CW QSOs	_____ x 2	= _____	CW Points
Phone QSOs	_____ x 1	= _____	Phone Points
Sum of CW + Phone Points		= _____	QSO Points
Number of Multipliers		= _____	Multipliers
Wis. Counties (Max. 72)	_____		
States (Max. 50)	_____		
Provinces (Max. 13)	_____		
QSO Points x Multipliers		= _____	Points
Bonus Points		= _____	Points
Final Score		= _____	Points

I have followed the WISCONSIN QSO PARTY RULES. ( ALL OPERATORS must sign - CLEARLY - including callsign )

Signature(s) \_\_\_\_\_

Date \_\_\_\_\_

To qualify, entries must be postmarked by **March 31, 1996** and sent to: 1996 WISCONSIN QSO PARTY, WEST ALLIS RADIO AMATEUR CLUB, P. O. BOX 1072, MILWAUKEE, WI 53201. Entries may be disqualified if the QSO Party Rules are not followed. The decision of the Wisconsin QSO Party Rules Committee shall be final. Results will be published in *Badger State Smoke Signals* which will be sent to all entrants.



## Ask Elmer

**Q. How can I compare two files that have the same date and time stamps?**

**A.** First, make sure they have different file names. If not, rename one of the files. Next use **FC.EXE**, it compares two files byte by byte and reports the filenames, locations and differences found. Then if there are lots of differences, you might want to print the report because it scrolls by the monitor screen very fast. There are nine switches with this powerful command. If you have MS-DOS versions older than 6.0 use the equivalent command **COMP.EXE**.

**Q. Wasn't there a problem with DoubleSpace disk compression in DOS?**

**A.** Yes. So don't use DBLSPACE or SMARTDRV in DOS 6.0, both programs caused a variety of problems with hard drives and are considered unsafe to use. But version 6.2x and several after-market programs can safely provide the same features.

**Q. What happens with the DATE command on computers when we reach the year 2000?**

**A.** For the years 1980 through 1999 you can enter two digits (80 through 99) for the DATE command for the year and the computer will assume the 19. Entering all four digits also works. But for the year 2000 and further you must enter all four digits. Don't worry or wait until the year 2000 to find out what will happen, just test DATE and you can confirm these results. Problem DATE entries will result in an error message "Invalid date." Be sure to reset DATE to today's date when you're finished experimenting.


**Q. Can I get more than one topping on a pizza if I use a one-topping coupon?**

**A.** Yes, for example, just ask for half sausage and half pepperoni. This usually counts as a single topping, but you'll get to enjoy the flavors of two toppings at the one-topping coupon price.

**Q. How can I speed up programs like Windows?**

**A.** Try some of the following: eliminate using fancy wallpaper, defrag the hard drive, use the latest device drivers, create permanent swap files, use a ram disk, choose 16 display colors and set display resolution to 640x480.

**Do you have a question or a problem? Ask Elmer! Send your questions (no telephone calls, please) to "Ask Elmer," 5003 South 26th Street, Milwaukee, WI 53221.**

**The No-Tune Window Antennas**  
complete, assembled, ready to use

TNT is the modern coax-fed version of the classic multi-bander. TNT is No-Tune on 80, 40, 20, 17, 12, 10. TNT 2 is No-Tune on 40, 20, 10. Work other bands w/ tuner. DX & Gain rise w. frequency. Ready to Use Now!

Includes Custom Isolation Balun and 99 ft. RG-8x feedline. Tech Support 801-373-8425 for info send \$1

**AntennasWest**  
Box 50062-RE Provo, UT 84605

Kink-Proof Wx Sealed Low Noise

No Traps or Resistors Insulated to 3000 V Rated 500 Watts

**TNT Window** \$89.95 +\$8  
135 ft. long #54

**TNT/2 Window** \$79.95 +\$7  
75 ft. long #34

Order Hotline **800-926-7373**

The TNT secret! Feed a resonant antenna off center at a constant impedance point. Tune it with a feedline isolation balun. Result! DX, broad low SWRs, and multi-band No-tune band-switching.

Custom 2KHz TNT model S70

## SEWFARS SWAPFEST

Ham Radio • Electronics • Computers  
Southeastern Wisconsin FM Amateur Repeater Society, Inc.  
146.820 • 145.070 • 444.125  
SUNDAY, MARCH 10, 1996 • WAUKESHA COUNTY EXPO  
CENTER ARENA • WAUKESHA, WISCONSIN  
Mail S.A.S.E. • Make checks payable to SEWFARS  
P.O. Box 102, Delafield, WI 53018  
Phone (414) 789-1034 • Talkin 146.820

Adams County Amateur Radio Club

## SPRING HAMFEST

Saturday, June 1, 1996

Adams County Fairgrounds

West of Hwy. 13 on Cty. J • Friendship, WI

8 a.m to 2 p.m. • Seller Setup at 7 a.m.

Talkin on 145.29 Adams Repeater

Adams County Amateur Radio Club

Friendship, WI 53934

Packet: N9TD-1 on 145.03

P. O. Box 232

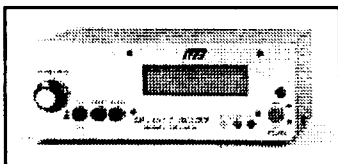
(608) 564-7887



## New Products

### MFJ-462B Secret Shortwave Multi-Reader

The MFJ-462B will have you believing that you are the next James Bond, for only \$169.95!



Ever watch those spy movies and want to crawl into the fantastic life of a secret agent man? Now you can! Tap into secret shortwave signals with MFJ's new 462B MultiReader.

Now you can turn those mysterious chirps, whistles and buzzing sounds on the shortwave bands into exciting text messages with our new MFJ-462B. Many of those chirps, whistles and buzzing sounds on the shortwave bands are RTTY, ASCII, and CW signals that are passing commercial, military, diplomatic, weather, aeronautical, maritime, amateur and other traffic.

When you plug this self-contained MFJ MultiReader into your shortwave receiver's earphone jack, you'll see those same chirps, buzzes and whistles turn into exciting text secret messages as they scroll across an easy-to-read LCD display. You don't need any extra equipment to "spy" into these hidden messages!

When you purchase the MFJ-462B, you are getting an invitation to eavesdrop on the world - you'll see the latest breaking news as press agencies from all over the world relay them on RTTY - it's like having a private wire service in your own home! You'll hear the world's commercial and government press agencies transmitting unedited news in English!

With the MFJ-462B, you'll be able to monitor Morse code communications via ham radio enthusiasts, military officers, commercial, aeronautical, diplomatic and maritime coastal stations from all over the world - Asia, Africa, Australia, Russia, Hong Kong, Japan, Egypt, Israel, USA and more! There's plenty of exciting non-voice traffic on shortwave that will keep you fascinated for a long time - all you need is your receiver and your MFJ-462B, Secret Shortwave MultiReader.

MFJ-462B features a printer port that will allow you to monitor a frequency 24 hours a day, an MFJ MessageSaver, a high-performance modem, and you get the MFJ AutoTrak™, automatic Morse code speed tracking. You'll be surprised at the copy you'll get with this powerful built-in software.

The MFJ-462B comes with MFJ's now famous "No Matter What" one year unconditional warranty.

For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762 or call (601) 323-5869, FAX: (601) 323-655 1, or order toll-free at 1-800-647-1800.

### MFJ-1778 G5RV Antenna

MFJ-1778 is the most popular wire antenna in ham radio and it is only \$29.95.

For years, you've heard the famous G5RV wire antenna

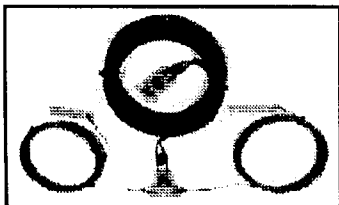
putting out good, strong signals from all over the world. The G5RV has got to be the most popular wire antenna in HAM radio, and now MFJ is ready to sell them at an amazing \$29.95!

It's no wonder that the G5RV is so popular.. it's an efficient all band antenna that's only 102 feet long--shorter than a full size 80 meter dipole.

You can use your G5RV, (MFJ-1778) as an inverted Vee or Sloper, and it's even more compact. With an antenna tuner, you can operate all bands, 80 through 10 meters and even use it on 160 meters as a Marconi with a tuner and ground.

Yes! An incredibly low priced G5RV at \$29.95 gets you MFJ's fully assembled, full legal limit MFJ-1778. You get 102 feet of heavy duty stranded copper wire (7 strands of 22 gauge wire that's equivalent to 14 gauge), and 32 feet and 6 inches of high quality, low loss 450 ohm ladderline with more than 50 percent air dielectric.

The ladder line is terminated on both ends with custom fiberglass insulator/strain reliefs and an SO-239 coaxial connector is mounted on feedpoint



## Foundation for Amateur Radio Offers Scholarships to Hams

### Two Wisconsin Clubs' Awards Included; Wisconsin Applicants May Qualify for Others

The nonprofit Foundation for Amateur Radio, Inc. - an ARRL-affiliated federation of radio clubs in the Washington, DC area - plans to administer 57 scholarships for the 1996-97 academic year to help licensed radio amateurs with their post-secondary education. Eight of the scholarships are fully funded with income from grants and the foundation's annual hamfest in Gaithersburg, Maryland.

Licensed hams are eligible if they plan to pursue a full-time course of study beyond high school and are enrolled or have been accepted at an accredited university, college, or technical school. Awards range from \$500 to \$2000, with preference given in



end for easy connection to a coaxial feedline.

All insulators are custom made from tough fire retardant fiberglass. There are no PVC insulators here! All connections are hand soldered at the factory for superior long-lasting service.

Just add some coaxial feedline and some rope or other nonconductor and you'll soon be on the air.

The MFJ-1778 famous G5RV wire antenna comes with MFJ's now famous "NO MATTER WHAT" one year unconditional guarantee.

For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762 or call (601) 323-5869, Fax: (601) 323-6551, or order toll-free at 1-800-647-1800.

- MFJ news releases

some cases to those pursuing certain courses of study or to residents of specific geographical areas (Delaware, Florida, Maine, Maryland, New Jersey, Ohio, Pennsylvania, Virginia, and Wisconsin).

Application forms and information are available by letter or QSL postmarked prior to April 30, 1996, from FAR Scholarships, 6903 Rhode Island Avenue, College Park, Maryland 20740.

Contributions to FAR are tax-exempt.

Wisconsin clubs awarding scholarships are:

#### South Milwaukee Amateur Radio Club

Four awards of \$500 each. Applicants must hold an Amateur Radio license and intend to seek an Associate or baccalaureate degree in Electrical Engineering or technology from a college or university in the U.S. They may reside in Wisconsin, Illinois, or Indiana, with preference given to Wisconsin residents.

#### WARAC Memorial Scholarships, West Allis Radio Amateur Club

Three awards of \$1000 each. Applicants must hold an Amateur license, be residents of the state of Wisconsin, and plan to attend a school in Wisconsin, pursuing at least an Associate degree. Those seeking graduate degrees are also eligible.

Wisconsin applicants are eligible for some of the other awards as well, and are encouraged to apply.

- The ARRL Letter, 1/12/96 and FAR news release

## SEWFARS SWAPFEST

### HAMRADIO ELECTRONICS COMPUTERS

### SOUTHEASTERN WISCONSIN FM AMATEUR REPEATER SOCIETY

146.820 145.070 444.125 INC.

**SUNDAY**  
**MARCH 10, 1996**  
**8:00 AM - 2:00 PM**

SET-UP BEGINS AT 6:00 AM!

**WAUKESHA COUNTY EXPO CENTER**  
**ARENA**

**WAUKESHA, WISCONSIN**

**ADMISSION \$4.00 ADVANCE, \$5.00 AT DOOR**  
**RESERVED TABLES PER 4 ft \$5.00 \$6.00 AT DOOR**  
**ELECTRICAL OUTLET \$5.00**

**AMATEUR EXAMS - Bring original license with you.**  
**RESERVATION DEADLINE IS FEB 23, 96 order early!**

Mail S.A.S.E. Make Checks to: SEWFARS P.O. Box 102 Delafield, WI 53018

Phone 414-789-1034 TALK-IN: 146.820

ADMISSION TICKETS \$4.00 MUST be purchased with table

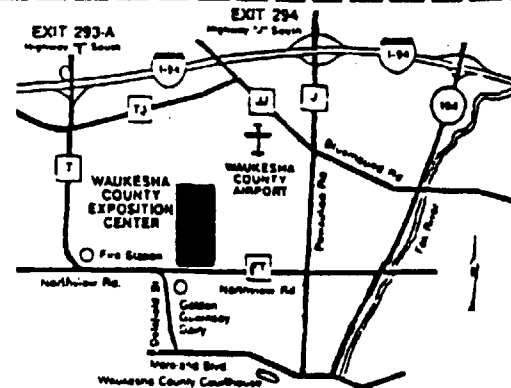
TABLE RESERVATIONS \$5.00 for each 4ft

ELECTRICAL OUTLET \$5.00

AMATEUR EXAM INFORMATION

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ADDRESS:  
STATE, ZIP:  
PHONE #

Mail with S.A.S.E. Make checks to: SEWFARS  
PO BOX 102 DELAFIELD WI 53018 Phone:  
414-789-1034 T A L K - I N 146.820



# PARTICIPATING CLUBS AND ORGANIZATIONS



## Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ  
Secretary

Club mail address: P.O. Box 621  
Onalaska, WI 54650



### MEETING MINUTES January 2, 1996

The January meeting of the Riverland Amateur Radio Club was called to order at 7:02 p.m. on January 2, 1996 by President Duane Freuchte, W9HWQ. There were 23 people were in attendance.

The minutes of the December meeting were not available. They should be in the *Badger State Smoke Signals* or can be read at the next meeting.

The treasurer's report was accepted as read. Judy, N9LGV, reported that of the 90 members we had for 1995, 22 have paid their dues for 1996.

The RARC annual party will be held at the Lighthouse restaurant on January 20, 1996. Cocktails will be at 6:00 p.m. and dinner at 7:00 p.m. 52 people have signed up in advance. A reminder will be mailed. Awards will be presented at the dinner.

Bill, KE9XQ, will make the coffee for club meetings in the near future.

Committee chairs were announced as follows:

**Programs for Club Meetings:** Feroz, WU9N

**440 Repeater:** Dan, N9PZC

**Sunday Night Net:** Mike, N9LXI

**ARES and Skywarn:** Kent, W9LZQ

**Trailer:** Bob, N9LZK

**Swapfest:** Dick, K0JYB

**97 Repeater:** Walt, AA9AW

**Field Day:** Karl, KB9EQI

**VEC:** Bill, KE9XQ

**Programs:** No report.

**440 Repeater:** Dan, N9PZC, reported that there was nothing new.

**Net Manager:** Mike, N9LXI, was absent, so discussion concerning the Sunday night net was postponed until the next

meeting.

**ARES/Skywarn:** Kent, W9LZQ, reported that a Red Cross Disaster Drill will be held on March 9, 1996, and will involve Houston county. Those who have had the Red Cross Disaster Assessment training should mark this on their calendars. The Red Cross will be offering disaster assessment training this spring. Skywarn operations training at the National Weather Service will be held on March 7, 1996 at the NWS office. A sign-up sheet was circulated. Skywarn spotters training will be held on March 23, 1996 at 10:00 a.m.

**Trailer:** No report.

**Swapfest:** Dick, K0JYB, reported that he had 5000 flyers printed advertising the Swapfest next August. He has plans to get these distributed.

**146.97 Repeater:** Walt, AA9AW, reports that the 146.97 repeater is working fine.

**Field Day:** Karl, KB9EQI, is open to suggestions.

**VEC:** Bill, KE9XQ, has not scheduled test sessions yet for 1996. He is thinking about having the tests at the Swapfest earlier in the morning.

**Dick, K0JYB,** said our New Year's resolution for 1996 should be to upgrade our ham license.

**Bill, KE9XQ,** had kits available to build an 80 meter SSB receiver. He offered to help people with this project at his house from 8:00 to 10:00 Saturday evenings.

At 7:32 p.m., Walt, AA9AW, made a motion to adjourn the meeting. It was seconded by Karl, KB9EQI, and passed.

*Respectfully submitted  
by Dan, N9PZC*

## Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

### MEETING MINUTES January 8, 1996

The meeting opened at 1935 hours, Kevin Zehr, N9OHE, presiding. A roll call netted about 30 members and guests present. Secretary's and treasurer's reports were read and approved.

It seems that Saturday, January 13 is going to be a busy day, as there was discussion of three events that happen or begin on that day. First, notice was given of VE exams to be given on that morning. Second, Mission Eau Claire student instruction (a class of about 30 5th-graders and parents) will begin under the firm hands of WB9RBP and N9JOE. Third, an appeal was made by N9OHE for volunteers to assist with the Eau Claire Ski Striders annual ski race on the same day, to provide communications from various parts of the course. Since there was only one volunteer, unless others are found during the week, the club will not be able to help.

The date of the annual Club Hamfest has been set. It will occur on July 27, 1996 at a new location, the new county fairgrounds at the junction of Routes 93 and 94, just south of Eau Claire. Among

topics covered at some length were site fees, table fees, number of tables to be available, VE exam location within the building, likelihood of building to be complete (the new fairground complex is still under construction), and other matters appertaining thereto.

WB9RBP noted that the local 2-meter simplex frequency is currently 146.55, and that many locals are using it so as not to tie up the club's two repeaters.

The February meeting program will be presented by Dr. Tom King, WF9I, and an assistant, who will discuss Morse code as a communications method by the handicapped.

Mention was made that the brakes on the club trailer are in bad shape. KB9LFI, who is a mechanic, said that he would look into the situation.

Lunch committee for February: KB9LFI, W9NW.

*Respectfully submitted by  
W9NW, Secretary*

*Thanks to our participating clubs for  
being an active and important part of  
BSSS!*

## The Racine Megacycle Club

Club Station W9UDU • Racine, WI

Alex Voss, N9RGX, Secretary  
c/o RMC

P. O. Box 3 • Racine, WI 53401-0003



ARRL Affiliated  
Providing Communications for  
American Red Cross and ARES

### MEETING MINUTES January 8, 1996

The meeting was called to order by President Rob Madson, KF9ZT at 7:31 P.M. local time. Those present were asked to introduce themselves with name and call. Those present were:

Rob, KF9ZT, President  
Kenny, N9WHR, Vice-President  
Dave, AA9HL, Treasurer  
Alex, N9RGX, Secretary  
Lee, N9VNU, Activities Manager  
Dan, KA9OIL, Trustee  
Joyce, N9YGC  
Dennis, KG9DO  
Jenny, KG9DO/harmonic  
Bruce, K9RRS  
Bob, W0WLN  
Fern, W9LCJ  
Harold, KB9LXM  
Gene, WB9ZKY  
Cheryl, WS9P  
Rees, K9UUT  
Dave, KC9NG  
Bill, W9ERG  
Jean, W9ERG/XYL  
Spence, W9LDH  
Paul, N9RGW  
Leah, KB9KUA  
Bob, N9ZLD  
Bill, W9OVZ  
Jay, N9KIY  
Dave, WB9USI  
Lloyd, WB9RGO  
Larry, WA9JMO  
Dennis, WB9SVM  
Don, KB9HAM  
Jim, N9ZWF  
Sandy, N9ZOX  
Steve, studying

### PRESIDENT'S REPORT

Rob, KF9ZT, said we have an exciting year ahead and we have a number of things in the works for 1996. In order to fit all these activities in, we would like to "stream-line" the meetings and ask that all members present their business to the board prior to the meeting. There have been some previous goings-on about ordinances in Racine and Kenosha and there is currently a state law being written to include PRB-1 which would be very advantageous for us, and at one of our board meeting to work with the local people to keep them advised, and to put some of the club's effort towards the state law.

The board has talked about revitalizing the Worked 99/Wisconsin Award which the club sponsored years ago.

### SECRETARY'S REPORT

The minutes for the November and December meetings were accepted as printed in the *Badger State Smoke Signals*.

### TREASURER'S REPORT

Dave, AA9HL, gave the financial report for 1995. The report was accepted as read.

### ACTIVITIES MANAGER'S REPORT

Lee, N9VNU, said each month we will have a program after the meeting each month. Next month Dave, AA9HL, will have a talk about contesting. W9UDU will be working the Wisconsin QSO party on

## Ham Calendar 1996

Courtesy of Racine  
Megacycle Club

Feb 2	RMC Fox Hunt
Feb 3	Testing Racine
Feb 4	Kenosha Ham Breakfast
Feb 12	Megacycle meeting
Feb 17	Internat'l DX Contest CW
Feb 27	Hamfest Eau Claire
Mar 1	RMC Fox Hunt
Mar 2	Testing Racine
Mar 2	Internat'l DX Contest PH
Mar 3	Kenosha Ham Breakfast
Mar 10	Hamfest Waukesha
Mar 10	Wisconsin QSO Party - Noon to 7 p.m. CST
Mar 11	Megacycle meeting
Mar 17	Hamfest Jefferson
Mar 29	RMC Fox Hunt
Mar 31	Hamfest Grayslake
Apr 6	Testing Racine
Apr 7	Kenosha Ham Breakfast
Apr 8	Megacycle meeting
Apr 14	Hamfest Madison
Apr 26	RMC Fox Hunt
Apr 30	Lakeshore meeting
May 4	Testing Racine
May 4	Hamfest Cedarburg
May 5	Kenosha Ham Breakfast
May 11	Hamfest Manitowoc
May 11	Hamfest Peotone
May 13	Megacycle meeting
May 24	RMC Fox Hunt
Jun 1	Testing Racine
Jun 1	Hamfest Friendship
Jun 2	Kenosha Ham Breakfast
Jun 8	VHF QSO Party
Jun 9	Hamfest Stevens Point
Jun 9	Hamfest McHenry
Jun 10	Megacycle meeting
Jun 21	RMC Fox Hunt
Jun 22	Field Day starts
Jun 23	Field Day ends
Jul 7	Kenosha Ham Breakfast
Jul 8	Megacycle meeting
Jul 13	Hamfest Oak Creek
Jul 13	IARU HF World Champ'ship
Jul 19	RMC Fox Hunt
Jul 27	Hamfest Eau Claire
Jul 27	Hamfest Rockford
Jul 28	HAMFEST RACINE!
Jul 30	Lakeshore meeting
Aug 3	UHF Contest
Aug 4	Kenosha Ham Breakfast
Aug 12	RMC Meeting
Aug 16	RMC Fox Hunt
Aug 17	10 GHz Contest
Sep 1	Kenosha Ham Breakfast
Sep 9	RMC Meeting
Sep 13	RMC Fox Hunt
Sep 14	VHF QSO Party
Sep 21	Amateur Radio Awareness
Sep 21	10 GHz Contest
Oct 11	RMC Fox Hunt
Oct 14	RMC Meeting
Oct 19	BMA Jamboree on the Air
Oct 19	Simulated Emergency Test
Oct 29	Lakeshore Meeting
Nov 2	Nov. Sweepstakes -CW
Nov 8	RMC Fox Hunt
Nov 11	RMC Meeting
Nov 16	Nov. Sweepstakes -Phone
Dec 6	RMC Fox Hunt
Dec 7	160-Meter Contest
Dec 9	RMC X-mas Meeting
Dec 14	10-Meter Contest

March 10th. We are also going to have programs on QRP, Construction, Packet and other interesting topics. Field Day is

*Continued on page 11*



## Racine Megacycle Club

*Continued from page 10*

the 22nd and 23rd of June, and we are looking for two people to chair the committee for it. We will be operating our Salmon-A-Rama special event station this year. If you have any topics for a presentation after the meeting, feel free to contact Lee, N9VNU.

### HAM CLASS FUNDS REPORT

Larry, WA9JMO, reported no changes since the last report.

### FOX HUNT REPORT

Dennis, WB9SVM, reported that the last hunt on January 5th started at Regency Mall, and there were two hidden transmitters. Gene, WB9ZKY, and team came in first place this month with only 3 minutes between 1st and 2nd place. The next hunt will be February 2 at 7:30 P.M. Talk-ins on 147.27+. The results for the 1995 fox hunts were printed on page 9 of the January issue of *Badger State Smoke Signals*.

### OLD BUSINESS

There was no old business.

### NEW BUSINESS

The 1996 Annual South-Eastern Wisconsin Ham Banquet is scheduled for Saturday, March 2 at the Racine Yacht Club, 2 Hubbard St. Racine, WI., 5:30 P.M. registration. Entrees: Baked Chicken Half - \$14.75; Orange Roughy - \$16.75; Filet Mignon - \$16.75. All dinners include salad, baked potato, vegetable, rolls and butter, coffee, dessert, tax and tip. Please fill out and submit your registration form to Bob Jensen, W0WLN. If you need a registration form see Bob, W0WLN, or

Larry, WA9JMO.

Larry, WA9JMO mentioned that along with the annual Ham Banquet he has forms for nominating local hams for Certificates of Appreciation and Meritorious service. Fill them out and return them to Larry by the end of the month.

Cheryl, WS9P announced that the Ham of the Year Committee is accepting nominations for "Ham of the Year".

### ANNOUNCEMENTS

Bob, W0WLN, mentioned that in January there was no Ham Testing at the Red Cross. Testing will resume on February 3.

Dave, AA9HL, said that on Wednesday December 27, 1995 his van was vandalized and the window was smashed. Taken from his van was an ICOM IC-21A Dual Band HT Serial Number 001344.

Chapter Head of the Lighthouse Chapter of 10-10, Dennis, KG9DO, said their net is on 28.455 on Sundays at 1:00 P.M. (Central) and Mondays at 8:00 P.M. (Central).

Cheryl, WS9P, has some Racine Megacycle Club Hats for sale they are \$6.00 each. Contact Cheryl, WS9P.

Lee, N9VNU said the first program of the year is a tour of the Racine Police Department Communications van. The program will be presented by Lt. David Voss, WB9USI.

The Goodie Box went to Alex, N9RGX.

The meeting was adjourned at 8:05 P.M.

Special thanks go to Verne, W9RYA for writing to inform me that there was an error in the January Ham Calendar. It reports that on July 13th there is a hamfest in Waukesha. The Hamfest is actually in Oak Creek.

*Respectfully Submitted,  
Alexander Voss, N9RGX  
Secretary, RMC*

## SOUTH-EASTERN WISCONSIN AREA NETS \*

### WEEKLY NETS

SUNDAY		
1:00 PM	28.455 MHz	Lighthouse Chapter 10-10
MONDAY		
8:00 PM	28.455 MHz	Lighthouse Chapter 10-10
WEDNESDAY		
7:00 PM	147.270+ MHz	ARES Practice Weather Net
8:00 PM	147.270+ MHz	Kenosha Chat Net
THURSDAY		
7:00 PM	147.270+ MHz	Kids-R-Us Net
9:00 PM	147.270+ MHz	QCWA Chapter 162 Net

\* ALL TIMES CST



## SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary  
N9001 Dairyland Rd., Cleveland, WI 53015

The January meeting of the Sheboygan County Amateur Radio Club was called to order by Chris, N9VKC. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

### Club Meeting Notes

There will be no general club meeting in February because of the club banquet. The banquet will be held at Klemme's Wagon Wheel in Howard's Grove on February 17th with Tune Up at 5 p.m. and Dinner at 6 p.m. Please contact Chris, N9VKC, as soon as possible if you plan to attend.

State of the club reports were given by Steve, N9TRK (treasurer), Kurt, N9ZMO (VP, net coordinator), and Mike, KF9SJ (secretary, tech committee). The following items were noted.

The packet gateway is being upgraded, and hopefully the link frequency will be switched to the 440 backbone in January. There may be times that the temporary gateway may de down during this upgrade. (KF9SJ-3 144.99 MHz / 145.73 MHz). When the upgrade is completed, there will be a new procedure to connect to the MYSYS Net. Watch the greeting message on the KF9SJ-3 TCP/IP mbox for new instructions.

A local path to the KR9S DX cluster is being set up on the 2 meter WAPR coordinated frequency. This will provide a better link from the Sheboygan 2 meter packet community to KR9S, and will reduce traffic on the 144.99 LAN frequency. When the link is up, a notice will be put up on the local TCP/IP mbox (KF9SJ-3) menu stating how to access the cluster.

The Sunday Morning G5RV and Coffee Clutch Net on 3.860 MHz at 9 a.m. is being moved. It has gotten close to

impossible to find a clear frequency near our target net frequency on Sunday mornings. A new band or new time for this net is being researched.

The Packet Net is back. Stay tuned to the Monday night Fun Net for more details. I plan to have a full schedule, and net conference connection instructions for the February minutes.

Chris, N9VKC, is setting up a web page on the InterNet for the SCARC. If you have material you would like to contribute, contact Chris, cjacobs@excel.net.

After an intermission and snacks provided by Jan, KB9KMF, a presentation on a DXpedition / vacation to Aruba was provided by Art, K9XJ (P40XJ). This time we had a working VCR for him! Thanks, Art, for a interesting talk.

### Nets

**The Packet Net Lives Again!** The Sunday night packet net is moving to Saturday night. The net will use the Converse (conference) mode available in KG9BO's mailbox. If you would like to participate, contact Josh at KG9BO on the Sheboygan LAN frequency of 144.99 MHz, or tune into the Monday Night Fun Net for more info.

**Monday Night Fun Net.** Meets at 7 p.m. local time on 147.06 MHz (+107.2PL). All with an Amateur Radio license of Technician class or higher are welcome to check in to this informal get together.

**Monday Night 10 Meter Fun Net.** Meets around 7:30 p.m., generally following the 2 meter net. The net meets on 28.350 MHz (USB), and all code class Amateur Radio operators are welcome to check in.

**Sunday Morning Coffee Clutch and G5RV Net.** In transition, stay tuned for more information.

*Submitted by Michael J. Musiel, KF9SJ*

## Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

### MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, February 1st at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, WI. Talk-in on the 147.15 Medford repeater (+600 kHz) or 146.52 MHz simplex.

newed their subscription, but who is still on the mailing list to receive copies, will be removed from that list.

Club dues and BSSS subscriptions may be paid at any club meeting, or they can be mailed to club Treasurer Bernie Jari, KA9WDX, W 3159 Hanley Ln., Medford, WI 54451. Checks or money orders should be made payable to: Taylor County Area Amateur Radio Club.

### EXCERPTS FROM MINUTES OF JANUARY 4, 1996 MEETING

Meeting was called to order by President N9GEN. Present were WD9ASX, N9GEN, N9UBQ, N9FZD, KE4FE, N9GHZ, AA9LE, KA9WDX and N9UBR.

Minutes of the December 7, 1995 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer KA9WDX. N9GEN reminded those members present that 1996 dues are due.

N9UBQ reported that the annual maintenance contract fee for our repeater is \$180.00 for 1996. The contract covers all labor and parts during normal working hours.

Some additional comments were made concerning the Amateur Radio communications for the annual Abbotsford, Wis., Christmas Parade on 12/02/95, as well as the operations of the parade in general.

It was announced that the 4th Annual Perkinstown Tramp Snowshoe Races And

### REMINDER: 1996 CLUB DUES AND BSSS SUBSCRIPTIONS

A reminder to all club members that 1996 club dues of \$10.00/year are now due and payable. After March 1st. anyone not yet having paid their 1996 dues will receive a reminder letter in the mail. After March 31st, the code to the repeater autopatch will be changed, and anyone not yet having paid their 1996 dues will lose their autopatch privileges.

Also, a reminder that 1996 subscriptions to *Badger State Smoke Signals*, which carries our club's monthly newsletter, are also now due, and payable through the club. The individual member's share of the subscription is \$6.00/year, with the balance of the cost picked up by the club. After March 1st, anyone not yet having renewed their 1996 subscription will receive a reminder letter in the mail. After March 31st, anyone still not having re-

motion by Chris, N9ZES, seconded by Bob, KG9CW, to accept the Treasurer's report. Dave later presented an annual financial summary for the year 1995 to the club.

Walt, N9LLS, gave the President's annual report on the progress and events of the Washington County Amateur Radio Club. One of the most notable events of 1995 was that the club-owned repeater was put on the air.

Don, K9GR, announced the Nomination Committee's candidates for the annual elections and opened the floor for additional nominations. There were no further nominations made.

Secretary Tom, N9LZW, entertained

*Please turn to page 12*



## Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,  
Secretary  
465 Elder Lane  
Allenton, WI 53002-9799

**Club Repeater: 146.73 MHz**

### ANNUAL MEETING MINUTES January 11, 1996

The Annual Meeting of the Washington County ARC was called to order at 7:30 P.M. on January 11, 1996 by President Walt Gossfeld, N9LLS. There were twenty-four members and approximately 7 guests present.

The minutes of the December 1995 meeting were read by the Secretary Tom, N9LZW. Don, K9GR, recommended changes and additions to be made to the minutes. There was a motion by Gary, W9XT, seconded by Tootie, N9OY, to approve the minutes as amended. Motion carried.

The treasurer's report was read by the Treasurer Dave, KA9RNU. There was a

*Please turn to page 12*

## Taylor County Area Amateur Radio Club

*Continued from page 11*

Tours would be held on January 20th near Perkinstown, Wis. No one present at the meeting reported hearing from anyone yet regarding a request to have Amateur Radio communications for this event.

An inquiry was made as to whether there was any further information concerning the possibility of the club's repeater sharing an antenna on the tower with a commercial radio paging service. No one present had heard anything new.

N9UBQ, Taylor County Emergency Coordinator, reported that there would be meetings held in Medford on January 15th and 16th to discuss the future potential of bringing Internet access to Medford and Taylor County. Also, Taylor County Emergency Government recently acquired a portable GPS (Global Positioning System) receiver.

Elections were held for 1996 club officers with the following results:

**President,** Tom Hrdina, N9GEN, Medford;  
**Vice-President,** Cliff Steevens, AA9LE,

Medford;  
**Treasurer,** Bernie Jari, KA9WDX, Medford; and  
**Secretary,** Mike Schoenfuss, N9GHZ, Abbotsford.

N9UBQ brought up the subject of the Amateur Radio equipment that is owned by the Medford School District but that, as far as is known, is not presently getting any use. Following some discussion, there was no immediate action taken.

Meeting was adjourned.

### CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

**Mike Schoenfuss, N9GHZ**  
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net. □

## Mancorad Radio Club

**John Meyer, NZ9Z, Secretary**

**P.O. Box 204 • Manitowoc, WI  
54221-0204**



**2-Meter Repeater: 146.01 Input/146.61 Output**

### MEETING MINUTES January 10, 1996

The January meeting of the ManCoRad Club was called to order at 7:40 PM by club president Red, N9GHE.

The Minutes of the December meeting were approved as amended -- motion made by Dick, N9QFY, seconded by Eric, WD9IAB. The Treasurer's report was approved as read -- motion made by Eric, seconded by Dick!

Ron, WS9X, reminded everyone that the computer-building classes will start on the Thursday following the first radio licensing class. Note: the licensing classes will begin Tuesday, January 23rd at 6:30 PM -- that's one week later than mentioned in the December minutes.)

Red gave out handouts with proposed constitution revisions for the members to consider. They will be discussed at the next meeting.

Glenn, AA9MT, proposed that the club purchase an MFJ Dip Meter Adapter for the club's Antenna Analyzer, and an MFJ Antenna Bridge to enhance the test equipment available to club members. A motion was made by Len, N9QFO, to purchase this equipment. The motion was seconded by Bob, KB9INK, and passed.

Red noted that the club is still looking for help for the hamfest on May 11th. Eric volunteered to coordinate the exam session and free your secretary from that duty (for the first time in 7 years) to enjoy the hamfest. (Thanks, Eric -- I may take up the brat-frying duties this year just for a change!)

Members were reminded of the Mid-winter Party, coming up on February 10th (details in the December minutes). Reservations are due for anyone planning to attend. We are looking for someone willing to buy door prizes. The program will be a slide presentation on a recent DXpedition to the French island of Miquelon by Mark, W9OP, and Mike, ND9O. (Anyone know where Miquelon is?)

A photo from January, 1962, was passed around of a present club member, taken when he was a 14-year-old Novice. All were asked to guess who it is. Numerous guesses were forwarded, but only Clancy, KB9ECW, and Gene, WB9DQD, guessed right. It was your secretary, NZ9Z (then KN9FWY), huddled over his "superstation" -- a Hallicrafters S-38 and a Heathkit DX-20. Fifty watts, CW only, rockbound, into a 40M dipole -- those were the days!!

A motion to close the meeting was made by Len, seconded by Terry, N9PZT. The meeting adjourned at 8 PM. Refreshments were served after the meeting.

*Submitted for Approval:  
John, NZ9Z, Secretary*

### MEETING ATTENDEES

Red	N9GHE
John	NZ9Z
Glenn	AA9MT
Dave	KB9KQA
Sharr	
Terry	N9PZT
Craig	N9VIC
Oran	N9VIA
Vic	WB9VYO
Len	N9QFG
Bob	KB9INK
Barney	N9XEP
Roger	W9NPX
Denise	N4WGK
Ken	K9HAG
Mary	KB9GOY
Gene	WB9DQD
Clancy	KB9ECW
Dave	N9UGI
Bill	K9DUX
Paul	N9QFX
Bill	N9XEZ
Dick	N9QFY
Eric	WD9IAB
Jim	N9KKG
Dan	N9FVZ

## Washington County Amateur Radio Club

*Continued from page 11*

a motion to close nominations and to have the secretary cast a unanimous ballot for the offices of President, Secretary, and Repeater Committee Chairman. Rip, W9-SIZ, made this motion which was seconded by Bill, N9IBU, and carried unanimously.

The secretary then cast unanimous ballots for President Walt, N9LLS, Secretary Tom, N9LZW, and Repeater Committee Chairman Don, K9GR.

There were two contested offices. For Vice President there was Gary, W9XT, and Peggy, WB9RWV. For Treasurer there was Dave, KA9RNU, and Chris, N9ZES. The results of an election by ballot were Gary, W9XT for Vice President and Dave, KA9RNU, for Treasurer. Both challengers had made a good showing.

### Old Business

Don, K9GR, stated that 187 newsletters were mailed to Washington County Hams. Printing and postage costs exceeded the \$60.00 previously allocated by approximately \$40.00. There was a motion by Peggy, WB9RWV, seconded by Joel, K9MLD, to reimburse Don for the entire expense. Motion carried.

### New Business

Larry, WB9BVB, stated that 30 members and guests had made reservations for the Annual Club Banquet which will be held this Saturday, January 11, 1996 at Timmers on Big Cedar Lake.

Peggy, WB9RWV, made an announcement of an AES packet seminar. The complete Kantronics seminar is now on a set of four video tapes.

Jim Pamperin, the Washington County Emergency Government Director talked about a new DTN satellite weather system his office is getting and of the possibility of a demo in the future. He also requested some volunteers to help him with the Communications Annex of the county's Emergency Operations Plan.

Pamperin also mentioned that he is planning another Clean Sweep program to take place in August and he would like the club's assistance in providing communications for it. Clean Sweep is a program whereby homeowners can dispose of any household hazardous wastes.

There was a motion by Don, K9GR, seconded by Rip, W9SIZ, to adjourn the meeting. Motion carried.

*Respectfully submitted:  
Tom, N9LZW, Secretary*

Following the meeting, members viewed the 4th videotape in the Kantronics seminar series. The tape explained the high frequency digital modes, RTTY, AMTOR, PACTOR, and GTOR. Our thanks to Peggy, WB9RWV, for bringing these videos to the meeting.

### February Breakfast Schedule

Washington County ARC members meet for breakfast each Saturday morning at varying restaurants around the county. All hams and guests are welcome to attend. Larry, WB9BVB, is the club's Food Chairman and he gives us this schedule for February 1996:

Feb 03, 1996, 9:00 A.M., Corfu Restaurant, Richfield

Feb 10, 1996 9:00 A.M., Slinger Inn, Slinger

Feb 17, 1996, 9:00 A.M., Around the Lakes 2, Hartford

Feb 24, 1996, 9:00 A.M., Fay's Restaurant, West Bend □

## Red Cedar Repeater Association, Inc.

**Steve Hart, KA9OMC, Secretary**

**E616 810th Avenue**

**Knapp, WI 54749**

**2-Meter Repeater: 146.01 Input/146.61 Output**

Greetings, RCRA sponsors and guests.

Sorry to hear that some of you have been involved in injury. From this summer include W0LUY, Ernie, and WB9OKQ, Lyle, and from this winter KE9RW, Steven, and NB9H, Bill. Three of these include vehicle mishaps for which they were the victim of someone else's action. Be careful out there.

N9FVA, Chuck, reports that he has become a certified ultra-light pilot. Chuck has been flying out of his airport west of Menomonie for many years and enjoys reconditioning and building aircraft.

K9KGB, Bill, has been attending tax school in preparation to help seniors complete those 1040's.

With the implementation of the 911 system comes the new addressing for the Dunn County area. Please take note of our new address and let me know your current address so that we can make sure the mail gets through.

Our best to KA9ZAJ, Jim, in Menomonie at recently becoming joined in marriage.

Some of our sponsors have been getting Smoke Signal renewal notices at the full subscription price without prior notice to us here at RCRA. I have asked K9EN to inform me first as you should

receive your notice directly from RCRA at a reduced rate. If you were a sponsor in 95 and were billed more, please let me know. I have asked BSSS to change our arrangements to a end year or quarter schedule to save on some of the confusion.

Please plan on attending the club auction on Feb. 27th at the American Legion Post 53 at 634 Water St., Eau Claire, WI. Auction time is 7 p.m. sharp. Doors open at 6 p.m. for you to set up your items. Equipment should pertain to the electronics hobby. Please mark all items with some identification and what you will accept for a minimum bid. Some snacks and coffee will be provided. W9QAH, Bruce Walther, will auction your items to the highest bidder. The RCRA is not responsible for any loss. Keep track of your stuff. All sales are final, and we will auction what time will allow. Admission is \$3.00 at the door or paid 1996 RCRA repeater support. The club retains 10% of all sales. Come to buy, sell or just have fun. See you at the Eau Claire Auction.

*RCRA Secretary/Treasurer  
KA9OMC, Steve Hart  
E616 810th Ave.  
Knapp, WI 54749*

## HERE and THERE

*Continued from page 5*

SAREX radios and thrilling hundreds of hams listening from Earth. Godwin, a NASA Mission Specialist, operated the

SAREX radios during mission STS-59 in April 1994, and especially enjoyed the school QSOs. She flies next on STS-76 in March 1996.

"These two folks are super wonderful people!" White said, expressing her best wishes for the newlyweds.

*- Matt Borden, KC5BTL in  
The ARRL Letter, 1/12/96*

## What Happened to BSSS 2nd Class Mailing?

According to our local postmaster, major changes are going to be made in the classification system of mail. The current classes (first, second, third, and fourth) are to be "canned", and a new system will replace it. Thus, best we wait and see what the new system will be before we make any change. The changes are supposedly to be initiated this summer. Patience.. and keep the faith!



## Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO  
5400 Six Mile Road  
Racine, WI 53402



As we slip past Ground Hog Day think warm thoughts; if the little fellow sees his shadow we are suppose to have six more weeks of winter, according to the news media. But if it does not see it, we'll only have 42 more days of winter.

Our February meeting will be a social gathering of the clan at the Summit Restaurant, 6825 Washington Ave. in Racine (Hwy. 20 about 4 miles east of I-94, on the south side of the road and across the street from Frank Gentile's auto dealership), on Sunday, the 18th, beginning at 12:30 pm. Cards will be sent as reminders.

A club QSL card has been selected and is soon to be ordered so as to be readily available to answer those Chapter call-initiated QSOs.

The criteria for our first annual Olin Fox, K9AKG, award has been nailed down and a committee formed to present nominees to the membership during our February brunch for their final selection. The committee appointed by president Ken Knoff, N9NBC, has Larry McCalvy, WA9JMO, as chair, with Spence Clope, W9LDH, Bill Komistra, W9OVZ, Herb Ladwig, W9PHJ, and Al Algiers, W9HR, tasked with finding the ham most worthy of this honor. The guidelines provided by

the membership include a person licensed at least 25 years prior to selection, residing in the Greater Southeastern Wisconsin area and who has contributed significantly to the Ham Radio Community. Olin's sons, daughters and their spouses will be invited as Chapter guests for the first presentation of their father's award.

Art, W9VSO, and Terry (Squeeks), N9VKF, Vahovius have purchased a home in Gulf Shores, Alabama, but not to worry, they will still be back in Wisconsin from May to September.

I am looking for written nominations of individuals, groups and/or businesses you feel are deserving of recognition for service to our hobby or community in an Amateur Radio-related way. Send your detailed written nomination to me ASAP for consideration by the Awards Committee prior to our annual Ham banquet on the 2nd of March 1996. A flyer with all the details and a strip map has been handed out or sent to most of the club memberships in the area. Mail or FAX your nomination to: Larry McCalvy, WA9JMO, Awards Chairman, 5400 Six Mile Road, Racine, WI 53402, FAX number is (414) 639-3320.

73, Larry McCalvy, WA9JMO

## ARRL Board of Directors Meets

The ARRL Board of Directors met in annual session, January 19 and 20, 1996, at Savannah, Georgia. The following are highlights of the Board actions:

A committee will be appointed by the President to draft ARRL policy positions, based on membership input, on questions to be addressed at WRC-99. Issues to be studied include possible simplification of the licensing structure, harmonization of licensing standards internationally, and consideration of Article S 25 of the international Radio Regulations, the technical and operational rules governing the Amateur and Amateur-Satellite Services, including but not limited to the HF code requirement.

The Ad Hoc Repeater Coordination Committee will continue dialogue with the repeater coordinators' drafting committee and other interested parties, and report to the Board at its next meeting any recommendations for regulatory change and suggestions for improvement of the coordination process. The drafting committee was created at last October's ARRL-sponsored open meeting of repeater coordinators in St. Charles, Missouri, to draft documents addressing such matters as the "single point of contact" between FCC and coordinators, recognition of coordinators, and dispute settlement.

The Board elected Rodney J. Stafford, KB6ZV, as President; Stephen Mendelsohn, WA2DHF as First Vice President; and Joel Harrison, WB5IGF, and Hugh A. Turnbull, W3ABC, as additional Vice Presidents. International Affairs Vice President Larry E. Price, W4RA, was re-elected. First Vice President Jay A. Holladay, W6EJJ, retiring from the Board after 21 years of service, was elected Honorary Vice President.

With the ascension of Directors Mendelsohn, Harrison, and Turnbull to Vice President posts, Hudson Division Vice Director Paul Vydareny, WB2VUK, Delta Division Vice Director Rick Roderick, K5UR, and Atlantic Division Vice Director Kay Craigie, WT3P, all automatically assumed the Directorship in their respective divisions, effective at the conclusion of the Board meeting.

Treasurer James E. McCobb, K1LLU, Executive Vice President and Secretary David Sumner, K1ZZ, and Chief Financial Officer Barry J. Shelley, N1VXY, were re-elected.

Northwestern Division Director Mary Lou Brown, NM7N, Roanoke Division Director John Kanode, N4MM, Southeastern Division Director Frank Butler, W4RH, and Southwestern Division Director Fried Heyn, WA6WZO, were elected as members of the Executive Committee.

Gene Hastings, W1VRK, Rocky Mountain Division Director Marshall Quiat, AG0X, and Roanoke Division Director John Kanode, N4MM, were re-elected members of the ARRL Foundation Board of Directors for three-year terms.

David Mann, VP2EHF and Dorothea Mann, VP2EE, won the International Humanitarian Award for 1995 for hurricane relief efforts.

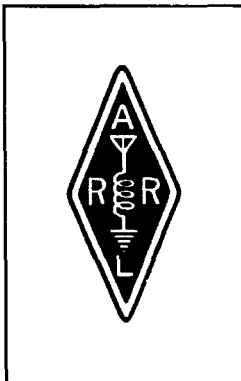
ARES members of Oklahoma were awarded the ARRL Certificate of Merit for their courageous efforts in providing critical emergency communication services to agencies responding to the Oklahoma City bombing.

The Board awarded Frank Bauer, KA3HDO, the ARRL National Certificate of Merit for his outstanding volunteer service as a member of the SAREX Working Group.

A new procedure for the reporting of Advisory Committee recommendations was adopted.

Scarborough Reef was approved as a DXCC country. A separate DX bulletin will provide details.

A committee will be assigned to review the DXCC Program and make necessary recommendations in order to encourage broader participation, make the program more equitable, create better understood criteria for DXCC "Countries," improve the process of reviewing requests for additions and deletions to the ARRL DXCC List and increase



## WISCONSIN NETS ASSOCIATION LTD.

### NTS TRAFFIC REPORT December 1995

December is traditionally one of the high traffic months of the year, due to lots of Christmas greetings sent via Amateur radio. December 1995 was no exception with an increase of over 350 messages from November. Considering the deplorable conditions on any of the nets in the hours of darkness, a big tip of the hat to all participants.

With all nets reporting in December, 3907 Amateur radio operators passed 2710 messages. The Badger Weather Net (NM W9AYK) had 1973 check-ins and 2603 messages passed. The Badger Emergency Net (NM KE9VU) had 778 check-ins and 240 messages passed. The Wisconsin Sideband Net (NM K9UTQ) had 453 check-ins and 72 messages passed. The Wisconsin Slow Speed Net (NM N9BDL) 171 check-ins and 8 messages passed. The Wisconsin Interstate Net/Early (NM WB9-ICH) had 181 check-ins and 46 messages passed. The Wisconsin Interstate Net/Late (NM W9UW) had 146 check-ins and 11 messages passed. The Northwoods Traffic Net had 205 check-ins and 40 messages passed. By comparison with last month, you can see that poor propagation in the evening nets took its toll.

There were ten stations with traffic counts of over 100, two of whom made Brass Pounders League. The stations are: W9AYK/2624 (BPL), WB9JSW/827 (BPL), K9FHI/427, K9DHR/319, W9-CBE/309, W9YCV/195, KA9KLZ/139, KB9UE/130, N9KHD/127 and N9-BDL/108.

There were eleven stations submitting

Public Service Honor Roll reports and thirty one submitting Station Activity Reports.

There is a strong possibility that the Wisconsin Novice Net may be resurrected in the near future. I have received a note from an interested amateur who wants to start the WNN up again. It will take some hard work and dedication from more than just one person to get the novice net going again. Let's all give our support to getting this net started up again.

I mail my reports to League Headquarters on the 7th of the month. That makes the deadline for reports the 6th. I can accept reports until I start printing them up for mailing. If you can catch me on the BWN on the morning of the 7th all would be well.

Hale Blakely, W9CBE, will also accept reports and forward them to me. Hale covers most of the CW and SSB nets so there is someone on almost every net to take reports.

Reports can also be sent VIA packet. My packet address is:

KA9KLZ @ NX9V.WI.USA.NOAM

NX9V forwards directly into my PBBS, so getting reports to me is not dependent on me checking the NX9V mailbox.

Thanks to all stations who participate in the Wisconsin nets. You are the nets and Wisconsin nets are the best. 73.

Submitted by:  
Arthur A. Evans, KA9KLZ  
Wisconsin Section Traffic Manager  
January 19, 1996

## Briefs... From the ARRL Letter, January 12, 1996

### BEARS Provide Communications During Blizzard

As the first blizzard of 1996 hit New England the weekend of January 6-7, the BEARS - members of the Bethel Educational Amateur Radio Society of Bethel (Connecticut) Middle School - got the call to action from the Bethel Office of Emergency Management.

The students operated around the clock to provide backup communication for the town and acting as a net control for 34 surrounding towns in the greater Fairfield County area. The BEARS team maintained vital communications links with the Area 1 Office of Emergency Management in Bridgeport, relaying weather information and preparing materials if emergency shelters were activated.

Using the call sign of their coordinator, Peter Kemp, KZ1Z, the group operated from the local fire department on both HF and VHF. The BEARS also have a club station at their school. A dozen students - boys and girls - participated in the effort. Kemp says he's been involved in emergency communications for years, and when the middle school - which also serves as an evacuation center - was built, the radio room was designed in and the building equipped with emergency power.

efficiency in the administration of the program.

The Secretary was instructed to poll the ARRL members in Herkimer, Otsego, and Schoharie Counties in the Northern New York Section, to determine their desires, on a county by county basis, regarding their inclusion in either the Northern New York Section or their former Section of Western New York. Results are to be communicated to the Executive Committee no later than March 15, 1996, so that the question can be resolved before the next election of Section Managers in the affected sections.

To improve its operations, the Board will experiment with a new system of standing committee and Board meetings during 1996. Committee meetings will be held in July and October, in conjunction with meetings of the full Board. The consolidated meetings will save time and money.

Details will appear in March QST.

### SAREX School Contacts Set for March

Five schools have been selected for participation in SAREX during space shuttle flight STS-76, tentatively set to launch March 21 for a nine-day mission that will include the third docking mission with *Mir* some 196 to 245 miles above Earth. The schools are Artesia (New Mexico) Public School; Troy (New Mexico) Middle School; S J Davis Middle School, San Antonio, Texas; Bethlehem Central Senior High School, Delmar, New York; and The University of Colorado College of Engineering and Applied Science in Colorado Springs. Two or more students at each of the selected schools will get to ask the astronauts questions during their scheduled radio contacts.

### FCC Playing Catch-Up

(Consensed) The budget impasse is over for now, but FCC issuance of new ham radio licenses was further delayed in January by bad weather and a Monday holiday. While open Jan. 11, the FCC accepted electronic amateur license application files from VECs, including more than 1800 records from ARRL/VEC. It was expected to take several days after the holiday for FCC to get back up to speed.



# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Bob Gedemer, KA9JAC

609 Wilson Street, Neenah, WI 54956

Andy Nemec, KB9ALN, Editor, 720 N. Broadway (Upper West), Green Bay, WI 54303

WAPR News - February 1996

Hi, Folks. This month we have a little bit of news to report. First, the meeting situation.

I had reported in last month's edition of the Packeteer that WAPR customarily has a mid-winter meeting at the Waukesha Swapfest in January. Well, as luck would have it, things did not go as planned.

Our chairman, Kent W9LZQ tried to obtain meeting space on, or near the fest grounds to no avail. There was "no room at the inn", so to speak, and any place that had room near the fest was too rich for our blood. So, we were unable to have our meeting as scheduled. I sent a note out on the BBS's informing people of the situation before the fest. I hope that no one had made a special trip unaware of the situation. I do apologize on behalf of the WAPR board of directors to anyone who was inconvenienced by this.

I certainly hope that we can have a meeting in Southeastern Wisconsin at some point in February. One reason is to catch up with the people in that part of the state. Socializing with fellow packeteers is also a great side benefit of these meetings. But I do have one special reason for wanting to see a meeting soon, and particularly in that part of the state.

A note was forwarded to me from the Wisconsin Packet Internet mailing list that concerned me. The author was urging everyone to attend because he felt that there was a movement underway amongst WAPR members to promote the censoring of packet bulletins. This was a complete surprise to me, as I thought that this issue was decided long ago. WAPR's position was stated eloquently by Kent through messages on the BBS network about a year ago. WAPR's position is to not endorse censoring of packet traffic, in fact, to discourage it. As long messages meet the criteria set forth in part 97 for legality, then it should go through. WAPR also does not wish to be involved in setting any guidelines for censorship, either. This is a BBS sysop issue, and the sysop should use his or her own discretion to determine what is legal. The FCC holds the originator and the first forwarder of a message legally responsible for the content of any message, so forwarding BBS's should not have to worry too much about this.

It is my observation that a vast majority of Sysops do not withhold any traffic. You will find Sysops that do not keep all of the messages that they forward on their BBS. For example, our local BBS does not permit certain messages to stay on the BBS that we consider rude or tasteless. However, we do forward them to other BBS's. The sysops of those BBS's make up their own mind as to what they consider appropriate. We do not make up their mind for them.

So for the benefit of those who are not familiar with the WAPR policy, I will restate the position we take: We do not condone censorship, urge all sysops to pass all legal traffic, and do not set any standards of sysop behavior. There were no plans to bring this up at any future meeting, from what I am able to remember. Of course, interested parties are urged to bring their concerns about Wisconsin Packet Radio to any of the WAPR meetings. They will be discussed on a time-available basis. And we always offer the opportunity to add agenda items before a meeting.

Back to the mid-winter meeting, we would still like to try hold ing one. Please look on your local Packet BBS for the latest news concerning any plans. We will give as much advance notice of this as we possibly can.

The discussion of the meeting situation yielded a nice note from Mike, KA9LAQ. He was kind enough to remind me that WAPR is most welcome to continue the tradition of meeting at the Central Wisconsin Radio Amateurs swapfest in June. He asks that we give details of space required and other arrangements. Mike, we do plan on keeping this tradition alive, and express our warm thanks to you and the folks that work hard to make this such an enjoyable swapfest. I always have found this to be a special swapfest, and have a good feeling about it. I did upgrade there in one of

the most pleasant VE Test sessions I have ever been part of, perhaps this is why. Maybe it is because I have always found good stuff there to buy. Maybe it's because the people are so nice. Whatever the reason, I do plan to go there this year. I hope you do, too.

In other news, there is a "new kid in town". Actually not a new kid, but a new BBS operated by a veteran of the Wisconsin Packet Radio scene for quite a while. Fr. Bill Jablonske has recently put the W9NNS BBS on the air and we wish him luck in his new endeavor.

One more thing. A few months ago I mentioned the Wisconsin Packet Internet mailing list. The list is still around, but has not enjoyed much activity of late. The pupose of the list is to promote discussion of packet radio and other digital operating modes of interest to Wisconsin Amateurs. You do not have to live in Wisconsin to subscribe to the list, or post a note on it. When there is enough mail on the list, we try to mirror it on the BBS network. If you have internet access, and wish to join, simply send a message to "listserver@relay.adp.wisc.edu" with the following text in the body of the message:

"subscribe wi\_packet \_your name\_"

Please give your given name in place of "\_your name\_".

Archives available via sending a message to "listserver@relay.adp.wisc.edu" with the following text in the body of the message:

"index wipacket" - To get an index of the archive  
 "search wipacket keyword\_" - To search archive for keyword\_  
 "get wipacket \_filename\_" - To retrieve a file from the archive

Please direct questions to:

Tom Landmann <landmann@facstaff.wisc.edu>

I am also pleased to report that we are making progress on the mystery of the lost mail destined for our local BBS here in Green Bay. I have received a lot of help from other sysops in the state, and one way or another we will have this resolved very soon. I am sorry if anyone has mailed me in the past with no reply. Try it again, it should be getting to me now. I am always open to suggestions regarding this column, as well as news from all over the state regarding packet radio.

There are 2 ways to get a hold of me, packet and by way of the old-fashioned U.S. Mail. My addresses appear below:

Andy Nemec, KB9ALN  
 720 N. Broadway (Upper West)  
 Green Bay, WI 54303  
 KB9ALN@KB9ALN.#GRB.WI.USA.NOAM

That's all for this month. 73 to all and happy packeting, Andy.

## Using the Wisconsin Network - Part 12

by Andy Nemec, KB9ALN

In the past editions of "Using the Wisconsin Network", we have devoted a lot of discussion to using the various network stations. We have also discussed, in basic terms, just how these pieces work together. In this installment, we will go backwards. Yes, we will look at the start of the network by looking at your station. You see, the network starts at your station, from your point of view, and from others as well.

Why do we say this? Go back to what a node is (and what it does) for your answer. A node is a sophisticated repeater of packets that you, and the station you are connected to, originate. If any of the stations using the network are not set up correctly, a node gets busy, and in some cases can sever a connection altogether.

Looking at packet radio basics will tell show us why this can happen. Remember what the basis of packet radio is - the sending of digital data by way of a shared radio channel. The fact that packet radio data is sent in short bursts allows several stations to use one frequency in the same time frame. In fact, packet radio stations share time as much as they share a frequency.

Now let's review how packet becomes "error free" (or nearly so). First, a line (or character) of text is sent from your computer to the TNC. The TNC counts how many bytes of data are being held in memory, ready to be sent out as a packet. When the number of bytes gets to a certain value (called the PACLEN), the TNC assembles a packet. When a packet is assembled, it calculates a number, called a checksum. This sending TNC assigns a sequence number to this packet, and addresses it. Then, the TNC checks to see if the any other stations are sending any packets on the frequency. It waits for what it thinks is a good amount of time before transmitting. Finally, the TNC keys the transmitter and sends the data to the transmitter in the form of audio tones. When the complete packet is sent, it unkeys the transmitter, and waits.

If receiving TNC can copy the packet, it converts the audio tones back into data that the computer inside of the TNC can use. It disassembles the packet, determines if the packet meets the checksum, and if it is of the correct protocol. Remember, most user stations use the AX.25 protocol, Nodes use Net/Rom, and TCP/IP stations use IP. Then it replies to let the sender know it's status.

The receiving station replies in one of a few ways, if it hears the packet. If the packet meets the checksum that is sent with the packet, and the sequence number matches what it is expecting, it

## DIGITAL SEMINAR III

By Kantronics.

Conducting the Seminar, Phil Anderson, WOXI, President Kantronics and Karl Medcalf, WK5M, Product Test Engineer

On Saturday, March 30, 1996 these digital communications pioneers will conduct another seminar on packet radio and other digital communications.

Six full hours of comprehensive instruction on packet and including PACTOR, AMTOR, RTTY, G-TOR AND CW. Plenty of time for demonstrations and question and answer sessions too.

Sessions include; Overview of Packet; Connecting your equipment; getting on the air; and

Other digital modes. Free BBQ sandwich and soda lunch. Prizes with a Kantronics KPC-3 grand prize.

These sessions will be held at Amateur Electronic Supply, 570 W. Good Hope Rd., Milwaukee, WI. 53223. (414) 358-3337. Space for this seminar may be limited, so please call and reserve your seat!

Also, Amateur Electronic Supply will be conducting their AES SUPERFEST 96 on Friday April 26 and Saturday April 27, 1996. There will be displays and representatives from most major amateur radio equipment manufacturers, all under one roof at AES. Coffee and soda, with free lunch and beverage Saturday. Manufacturer's specials and coupons. Hourly drawing for prizes donated by all participating manufacturers and AES.

More information on both of the upcoming events will be in the March and April issues of BSSS.



checks to see if the frequency is clear. It waits for what it considers a good amount of time, and responds with a "Receiver Ready" packet. It also tells the sender what the next expected packet will be numbered as. All is well so far.

If however, the packet is corrupted for some reason, or it is a duplicate packet, the receiver will send a "Reject" packet. If it fails the checksum, it tells the sender this. Again, it tells the sender what sequence number of packet it is expecting. If the packet is not of the expected protocol (generally AX.25), then it sends a "Frame Reject". If it is a serious protocol error, it will break the connection and make you start over. Protocol errors between two AX.25 packet stations are rare, however, and are usually due to incorrectly decoded packets.

If the receiving station does not hear the packet, or if the packet is so badly distorted that it cannot recognize it, it does not reply.

The sender is waiting for a reply, however, and a timer determines just how long it will wait before it asks "Did you get the last one?". If no reply is heard, and the timer expires, it does just that. This is called "polling".

While all of this might be "more than you really wanted to know", it is important to understand in these basic terms. Why? Look at all of the timing at work here. First, we divide up time to allow several stations to use a given frequency. The sender waits to send data. The receiver waits to acknowledge the receipt of data. The sender waits a certain amount of time before checking to see if the packet has arrived. As with the rest of life, "Timing is Everything!".

Consider what happens if a station sends a packet out, and does not wait long enough for the receiver to reply. That is a wasted packet. What happens if a receiver does not wait long enough before acknowledging a packet? Some other station will not get a chance to transmit a packet. What happens if both stations do not wait long enough between transmissions, or between polling? Then the frequency is virtually "locked up" as long as these stations are connected!

And that is where the network comes in. The network starts with you, and your fellow packet operators. Remember, we are all "time sharing", as well as frequency sharing.

All of these timing parameters are configurable through simple TNC commands. The sad fact is, the defaults that are factory set are totally unrealistic in today's packet radio environment. Most of these were decided on in the early 1980's when packet radio was not nearly as well-populated as it is now. Add to that the fact that a lot of TNC instruction manuals are written in Techno-Babble, and it is no wonder that we are all confounded and prefer to leave them as they are. We could all be operating a lot more efficiently than we are now.

And that is what the next installments of this series will be about. We will discuss TNC parameters, what they mean, and how to set them up in a cooperative manner.

Until next time, 73.

## THE TEST POINT

(continued from page 3)

Bloomington Amateur Radio Club (BARC)  
Contact: Jerry Jensen, WTOW (612) 222-7253  
Test Site: Creekside Community Center  
98th & Penn Avenue S  
Bloomington, MN  
TESTING: Second Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)  
Contact: Paul Ramey, WGOG (612) 432-1640 or  
Test Site: Hayes Community Center  
14601 Hayes Road  
Apple Valley, MN  
TESTING: Second Thursday of the month 7:00 p.m.

W5YI  
Contact: Dave Ranney, NOAXL (612) 933-2182  
Test Site: Eden Prairie Library  
479 Eden Prairie Drive  
Eden Prairie, MN  
TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)  
Contact: Dave Harrell, NOIPN (612) 459-8678  
Test Site: Cottage Grove fire Station  
8641 80th ST., S  
Cottage Grove, MN  
TESTING: Third Saturday of the month, 9:00 a.m.



## Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call)  
K9ODK (Robert L. Prine Memorial Call)

Raymond J. Matlosz, N9MLZ, Secretary  
450 West 2nd Street • Reedsburg, WI 53959



The January 16, 1996 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:38 p.m. by club president Steve Schulze, N9UD0.

The minutes of the last meeting, as published in the BSSS, were accepted. Jim Decker, WB9UQT gave the financial report.

OLD BUSINESS: Bill Hommel, KA9QFJ reported nothing was happening with the selection of a club banner but thought by the next time we needed one, we would have one. A discussion was held about the Holiday Party held at the Old Highway House and there was general agreement to have it there again this year.

NEW BUSINESS: Jim Paul, N9LKY received a letter regarding this year's Youth Opportunity Days to be held Saturday April 13 from 9 a.m. to 1 p.m. at the Baraboo senior high school. A second organizational meeting was scheduled for Wednesday at 7 p.m., room 19 in the civic center.

Plans for an open house and ham classes were discussed. The date for the open house would be the week after the regularly scheduled February meeting. Steve Schulze would check into the date and availability of a room. (The date for the Open House has been confirmed as February 21, 1996.) Posters will be distributed by Bill/Anne in Sauk City, Jim in Merrimac (1), Dave in Portage and Tom in Reedsburg. Bill, Anne and Steve would bring in refreshments. Plans will be finalized at the February meeting.

Also discussed was the club's participation in

The above information has been furnished by the various VEs. However, it is suggested that you confirm time, date and location BEFORE you make the trip to the test site. Occasionally, a test may be canceled and/or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

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FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

### Expensive Account

The new sales manager went over the expense account of a salesman just back from six weeks on the road. "Can you explain this item?" he demanded.

"Yes, sir," the salesman replied. "That's my hotel bill."

"Well," the sales manager said, "you're just going to have to stop buying hotels."

### RaNdOm AcCeSs HuMoR

(from Squelch Tale)

I reality wants to get in touch, it knows where i am.

Hard work has a future payoff. Laziness pays off now.

System error - press F13 to continue.

Circus Heritage days, Field day, and the fox hunt.

Steve Schulze announced an advanced spotter training geared for hams would be held Saturday March 9th at 11 a.m. at MATC-East in room 142. Steve also read a thank you from Rusty for participating in last year's skywarn network.

Buck night winner (loser) was Dennis Sweeney, Meeting adjourned at 8:42 p.m. and was followed by a discussion on packet radio.

The next meeting will be held Wednesday February 14, 1995 at 7:30 p.m., room 14, in the Baraboo Civic Center.

Sincerely,

Raymond J. Matlosz, N9MLZ, Secretary

The following members and guest were present:

Steve Schulze	N9UD0	Baraboo
Jim Paul	N9LKY	Merrimac
Art Kleefisch	W9WSS	Baraboo
Jim Decker	WB9UQT	Baraboo
Raymond Matlosz	N9MLZ	Reedsburg
Dave Spearing	KB9CSW	Portage
Bill Hommel	KA9QFJ	Baraboo
Jerry Vulstek	KD9QW	Wisconsin Dells
Scott Vulstek		Wisconsin Dells
Leonard Wagner	N9XJG	Baraboo
Thomas Harrison	N9PQJ	Reedsburg
Bill Klinkner	N9KXX	Sauk City
Anne Klinkner	N9PQL	Sauk City

No, I'm not a elitist. Why do you ask, peasant?

Did you expect mere proof to sway my opinion?

Smokey the Bear says, "Strip mining prevents forest fires."

And you thought space was warped.

Government: not the solution, but the problem.

The most affectionate creature is the wet dog.

The secret of the universe is @\*&^^ NO CARRIER

My IRS check just bounced.

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# The Badger State Smoke Signals Shopper's Guide

## SWAPFESTS



### 24th ANNUAL MIDWINTER SWAPFEST

WAUKESHA EXPOSITION CENTER  
WAUKESHA, WISCONSIN

**SUNDAY  
JANUARY 14, 1996**

1995 WINNERS:  
Timothy J. Czerwinski, W09U, Chetek  
Steven D. Miller, KB9DFE, Spooner  
Karen M. Schneider, N9SVA, Appleton

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### HAM IT UP EVERY SPRING! MADISON SWAPFEST

**SUNDAY, APRIL 14, 1996**

Dane County Expo Center  
Forum Building

Sponsored by MARA/WB9AER

P. O. Box 8890 Madison, WI 53708-8890  
Swapfest Information Line: (608) 245-8890

SOUTH MILWAUKEE AMATEUR RADIO CLUB

### SWAPFEST 96

**July 13, 1996**

(Held every July)

American Legion Park

Shepard Avenue • Oak Creek, WI

(414) 762-3235

Extension 58

P. O. Box 102

South Milwaukee, WI 53172

### Fox Cities Hamfest

**Sunday, November 3, 1996**

Starlite Club, Hwy. 55 north of Kaukana

HAMFEST INFO:  
Chad Pennings, N9PRC  
318 E. Brewster St.  
Appleton, WI 54911  
(414) 954-1229

EXAM INFO:  
Larry Siebers, KD9IA  
(414) 759-1167

### Lakeshore Hamfest

and Computer Swapfest

Manitowoc County Expo

Intersection of Hwys. 42-151 and I-43 on Cty. Hwy. R

**Saturday, May 11, 1996**

For more information, call:

Glenn, AA9MT: 414-684-7096

Red, N9GHE: 414-684-9097 (nights)

ManCoRad Radio Club • P.O. Box 204 • Manitowoc, WI 54221-0204

### HAMFEST & COMPUTER EXPO

ANTIQUÉ RADIO SHOW

**SATURDAY, AUGUST 24, 1996**

8 A.M. TO 3 P.M.

OMNI CENTER • ONALASKA, WI

2 1/2 MILES NORTH OF LA CROSSE, WI ON HWY. 35

RIVERLAND AMATEUR RADIO CLUB

WESTERN WI ANTIQUÉ RADIO COLLECTORS CLUB

CALL DICK LOW, K0YB • 1-608-784-9176

1520 NAKOMIS AVE., LA CROSSE, WI 54603

### 19th Annual CWRA Swapfest

**Sunday, June 9, 1996**

8 a.m. to 2 p.m.

UNIVERSITY CENTER, U.W. STEVENS POINT

Info: John Kalina, KA9DJA

(715) 344-1407

1240 North Point Drive

Stevens Point, WI 54481

Eau Claire Amateur Radio Club

### SWAPFEST

**Saturday, July 27, 1996**

Eau Claire County

Fairgrounds

Intersection of Highways 93 and I-94

Carol Ceraso • (715) 723-9205

Liz Searing • (715) 834-1303

P.O. Box 1867 • Eau Claire, WI 54701

### RACINE HAMFEST 96 Sunday, July 28, 1996

8 A.M. - 2 P.M.

SOUTH HILLS COUNTRY CLUB I-94

East Frontage Road

Between Highway 20 and Highway K

OUTDOOR AND INDOOR SALES

Air Conditioned

Commercial Dealers • Forums

TABLES \$8.00

Advance Tickets \$ASE and \$3.00

Send to RMC, P.O. Box 3, Racine, WI 53401

### Ozaukee Radio Club 18TH ANNUAL RADIO AND COMPUTER SWAPFEST

8 a.m. to 1 p.m. • Circle B Recreation Center

Intersection of Highway 60 and County I

Exams by Badger Examiners, c/o Gary Sharbuno,

5119 W. Willow Rd., Brown Deer, WI 53222

Swapfest sponsored by the Ozaukee Radio Club

11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs

### SWAPFEST

**Sunday, October 13, 1996**

Waukesha County Expo Center

Info: KMRA Swapfest

P. O. Box 411

Waukesha, WI 53187-0411

Red Cedar Repeater Association, Inc.

### AUCTION

**February 27, 1996 • 7:00 p.m.**

American Legion Post 53 • 634 Water Street

Eau Claire, WI

CONTACT:

Steve Hart, KA9OMC  
E616 810th Ave.

715-665-2374  
Knapp, WI 54749

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Dick Scarvaci

K9 CAN

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Craig Henderson

Phone (419) 352-4465

N8DJB

Hours: 10 - 5



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